

VA PALO ALTO 640

3801 Miranda Avenue (04d)
Palo Alto, CA 94304

SOMATOM DEFINITION FLASH



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Project Contacts:

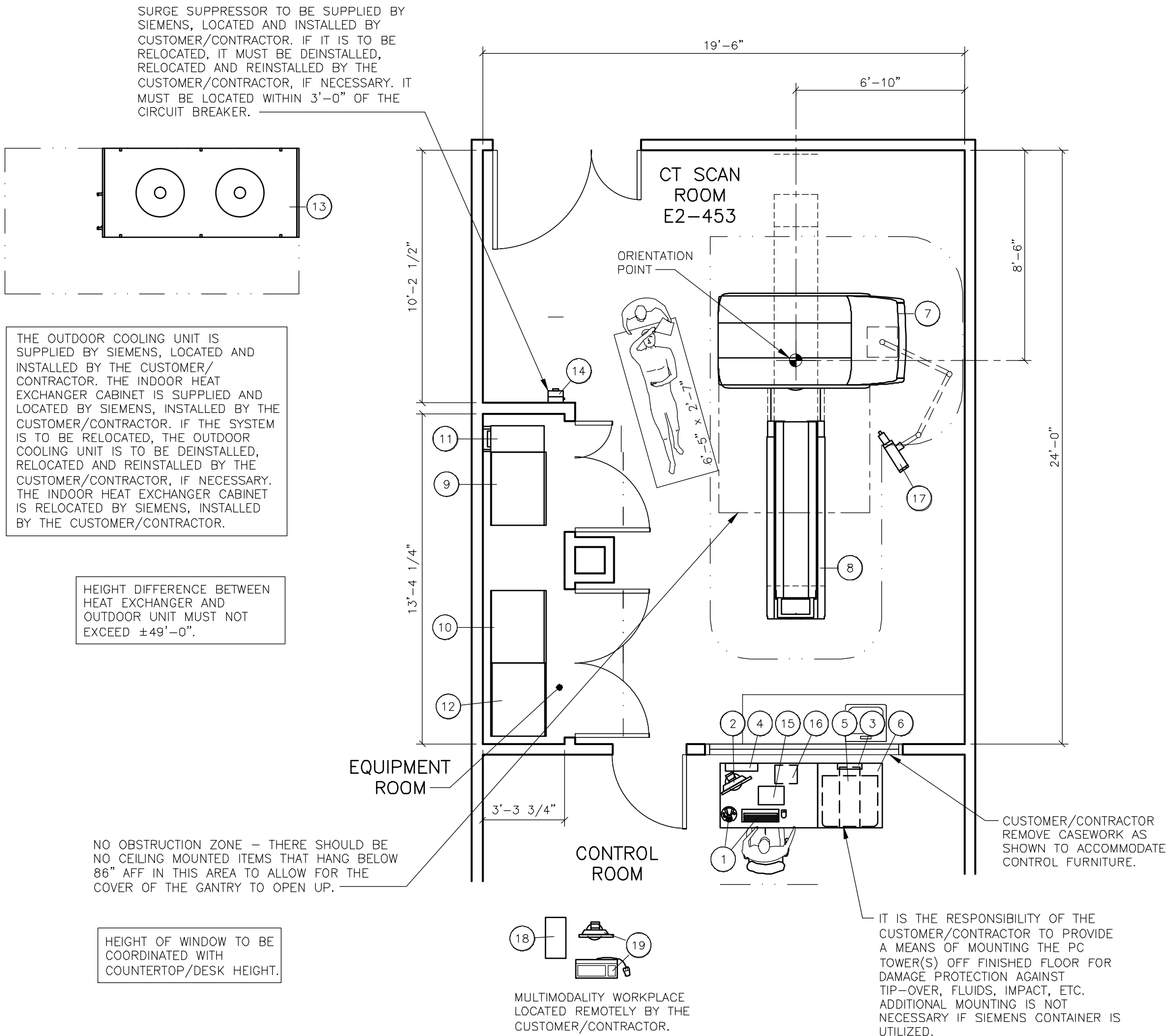
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THIS SET OF FINAL DRAWINGS IS REFLECTIVE OF THE LATEST SALES CONFIGURATION. ANY CHANGES TO THIS SALES CONFIGURATION MAY REQUIRE A REVISION TO THIS PROJECT PLAN. IF REQUESTED, SIEMENS WILL PRODUCE A REVISED SET OF FINAL DRAWINGS TO REFLECT THE CHANGES. HOWEVER SIEMENS IS NOT RESPONSIBLE FOR ANY CONSTRUCTION COSTS ASSOCIATED WITH THE CHANGES THAT OCCUR FROM THIS PLAN MODIFICATION.



ARCHITECTURAL EQUIPMENT PLAN

ROOM MEASUREMENTS

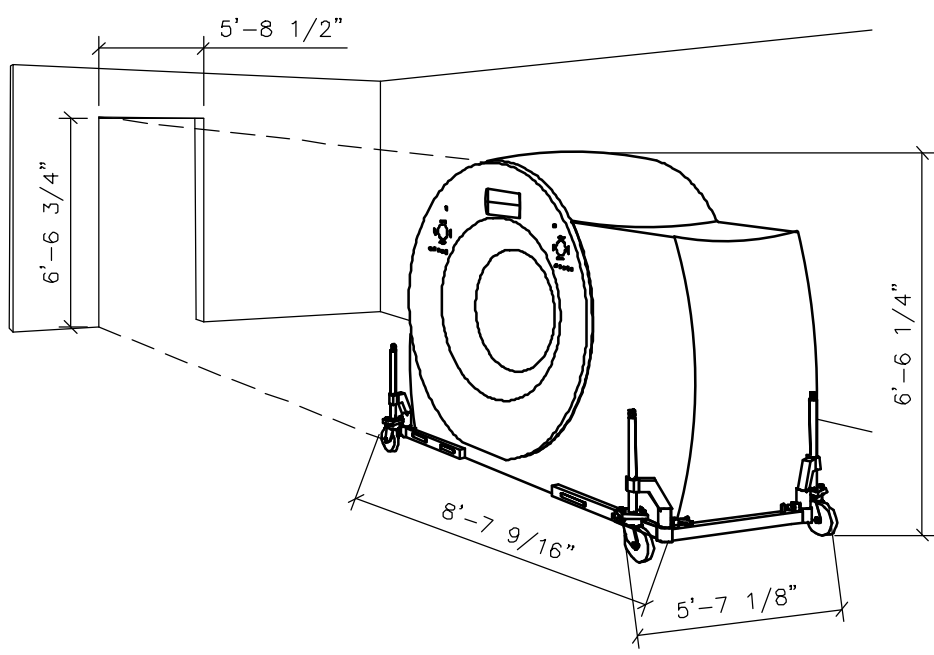
ALL ROOM MEASUREMENTS AND ROOM DETAIL SPECIFICATIONS MUST BE VERIFIED ON SITE PRIOR TO BEGINNING ANY CONSTRUCTION WORK.

TRANSPORT AND DELIVERY NOTES

TOTAL GANTRY TRANSPORT WEIGHT: 6,295 LBS.
GANTRY WITHOUT TRANSPORT DEVICE: 5,688 LBS.
TRANSPORT DEVICE: 607 LBS.

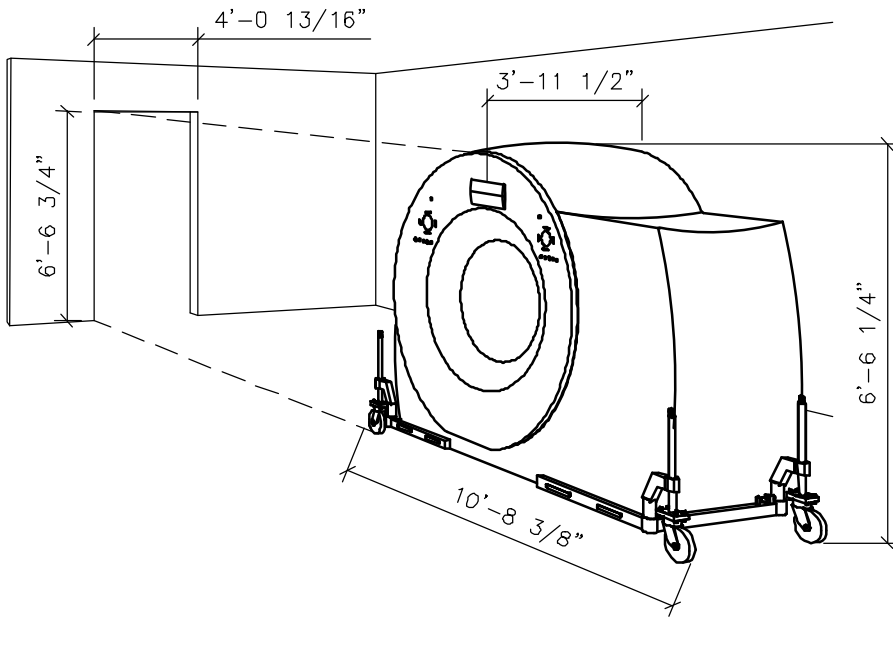
NORMAL TRANSPORT REQUIREMENTS:

DURING THE MOVEMENT OF THE GANTRY THROUGH CORRIDORS THE TRANSPORT CASTERS ARE SWEILED OUT FOR STABILITY AS SHOWN BELOW. THE MAXIMUM WIDTH IS 5'-7 1/8" AND THE MAX. LENGTH IS 8'-7 9/16" WHEN CASTERS ARE SWEILED OUT.



NARROW SPACE TRANSPORT REQUIREMENTS:

WHEN TRANSPORTING THE GANTRY THROUGH A NARROW SPACE OR DOORWAY, THE TRANSPORT CASTERS ARE SWEILED IN AS SHOWN BELOW. THE MAXIMUM WIDTH IS 3'-11 1/2" AND MAXIMUM LENGTH 10'-8 3/8".



SCALE: 1/4" = 1'-0"

PLANNING REQUIREMENTS

EMERGENCY POWER OFF (EPO) BUTTONS REQUIRED IN CONTROL AREA, EXAMINATION ROOM AND EQUIPMENT AREA.

DOOR (SAFETY) SWITCH REQUIRED ON ALL DOORS ACCESSING THE EXAMINATION ROOM IN ACCORDANCE WITH LOCAL CODES.

STATE AGENCY REVIEW

PRIOR TO SIEMENS EQUIPMENT INSTALLATION, APPROVAL OF CONSTRUCTION OR STRUCTURAL MODIFICATIONS UTILIZING X-RAY FOR DIAGNOSTIC OR THERAPEUTIC PURPOSES, MUST BE OBTAINED BY THE CUSTOMER FROM THE APPROPRIATE STATE AGENCY, IF APPLICABLE.

CASEWORK & ACCESSORY NOTES

- ALL CASEWORK IS EITHER EXISTING OR IS TO BE DESIGNED, DETAILED, FURNISHED AND INSTALLED BY THE CUSTOMER AND/OR CONTRACTOR. FOLLOW DESIGN RECOMMENDATIONS INCLUDED HEREWITH, AS THEY ARE ESSENTIAL FOR THE SUCCESSFUL INSTALLATION & OPERATION OF THE SIEMENS EQUIPMENT.
- ALL FURNITURE (CHAIRS, ETC.) FOR THE CONTROL ROOM ARE TO BE PROVIDED BY THE CUSTOMER.

EQUIPMENT LEGEND

NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES)			REMARKS
					W	D	H	
1	CONTROL CONSOLE W/KEYBOARD AND CONTROL BOX	1	75	---	47 1/4	31 1/2	28 3/8	
2	19" FLAT SCREEN MONITOR ICS	2	20	256	16 9/16	8 1/4	16 1/16	ON CONSOLE/COUNTER
3	POWER CONNECTION TERMINAL - ICS	3	---	---	---	---	---	WALL MOUNTED
4	DVI SPLITTER - ICS	4	---	---	15 3/4	3 15/16	11 13/16	MOUNTED ON THE CONSOLE/CONTAINER
5	SYNGO ACQUISITION WORKPLACE	5	<66	1,706	9 13/16	29 1/2	18 1/2	OFF FLOOR/IN CONTAINER
6	CONTAINER & CONTAINER TABLE FOR ICS/IES (OPTION)	6	55	---	31 1/2	31 1/2	28 3/8	HOUSING FOR ICS/IES
7	SOMATOM DEFINITION FLASH GANTRY	7	5,688	3,412*	91 1/8	47 3/8	78	*ADDITIONAL HEAT DISSIPATED TO WATER
8	PATIENT TABLE	8	1,103	1,024	29 1/2	95 11/16	33 7/16	
9	POWER DISTRIBUTION CABINET "A" & UPS	9	1,213	13,649**	35 7/16	26 15/16	76 3/4	UPS LOCATED INSIDE OF PDCA
10	POWER DISTRIBUTION CABINET "B"	10	882	**	35 7/16	26 15/16	76 3/4	**PDCA & PDGB COMBINED
11	IMAGE RECONSTRUCTION SYSTEM - IRSMX2D	11	128	4,097	12 5/8	29 1/2	20 13/16	
12	HEAT EXCHANGER CABINET - WATER/AIR SPLIT (OPTION)	12	772	3,412	35 1/4	26 15/16	78 9/16	
13	OUTDOOR UNIT - WATER/AIR SPLIT (OPTION)	13	397	129,662	95 1/2	43 1/4	40 3/16	
14	EATON SURGE PROTECTIVE DEVICE PANEL (OEM-OPTION)	14	13.5	---	7 1/2	6 11/16	12	WALL MOUNTED
15	MEDRAD M25CT222DF DISPLAY CONTROL UNIT (OEM-OPTION)	15	8	---	12 1/2	9	13 1/2	HEIGHT WITH SCREEN UP
16	MEDRAD M25CT222DF BASE UNIT (OEM-OPTION)	16	14	---	11	8 3/4	11 1/2	UNDER COUNTER ON SHELF
17	CEILING MOUNTED MEDRAD INJECTOR (OEM-OPTION)	17	108	---	---	---	---	SEE MFG SPECIFICATIONS
18	MULTIMODALITY WORKPLACE COMPUTER (OPTION)	18	55	---	19 3/4	10	23 5/8	ON CUSTOMER'S COUNTER
19	MULTIMODALITY WORKPLACE KEYBOARD AND MONITOR (OPTION)	19	-	---	---	---	---	ON CUSTOMER'S COUNTER

ENVIRONMENTAL/POWER AUDIT

AS AN INDICATION OF OUR COMMITMENT TO QUALITY, SIEMENS MAY, AT NO COST TO YOUR FACILITY, CHECK THE OPERATING ENVIRONMENT AFTER SYSTEM TURNOVER TO DETERMINE IF THE REQUIREMENTS FOR TEMPERATURE, HUMIDITY, POWER, AND GROUNDING ARE MET AS PER SIEMENS' PUBLISHED SPECIFICATIONS. SIEMENS WILL GENERATE A WRITTEN REPORT DETAILING THE ENVIRONMENTAL AND ELECTRICAL CONDITION OF THE SITE AFTER TURNOVER AND WILL SHARE THE REPORT WITH YOU. IN THE EVENT WE IDENTIFY ANY ENVIRONMENTAL/POWER DEFICIENCIES AT THE SITE, YOUR FACILITY WILL BE REQUESTED TO CORRECT DEFICIENCIES WITHIN THIRTY (30) DAYS. SHOULD ANY CORRECTIVE ACTIONS BE NECESSARY, AND UPON REQUEST, SIEMENS WILL PROVIDE GUIDANCE IN AN EFFORT TO FACILITATE RESOLUTION. PLEASE BE ADVISED THAT AFTER 30 DAYS NOTICE ANY REPAIR OR MAINTENANCE SERVICES NECESSITATED BY SEVERE DEFICIENCIES WILL FALL OUTSIDE YOUR WARRANTY COVERAGE.

NOISE LEVEL

SYSTEM COMPONENT	DECIBEL LEVEL (AT 3'-3" DISTANCE)
GANTRY	<70
PATIENT TABLE	<60
PDCA CABINET	≤55
PDGB CABINET	≤55
IRSMX2D TOWER	≤55
HEAT EXCHANGER - WATER/AIR SPLIT	<65

ARCHITECTURAL NOTES

- ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS MEDICAL SOLUTIONS, INC. (SMS HEREAFTER) ARE BASED ON THE RECOMMENDED SPACE NECESSARY FOR THE OPERATION AND SERVICEABILITY OF THE EQUIPMENT BEING PROPOSED. SMS WILL NOT SUBMIT AN EQUIPMENT LAYOUT THAT IS NOT IN THE BEST INTEREST OF BOTH THE CUSTOMER AND SMS. ALL EQUIPMENT LAYOUTS ARE BASED EITHER ON AN ACTUAL SITE LOCATION SURVEY OR ARCHITECTURAL DRAWINGS SUPPLIED TO SMS. SMS WILL NOT BE RESPONSIBLE FOR ANY ALTERATIONS THAT ENCROACH WITHIN DESIGNATED SAFETY AND SERVICE CLEARANCE ZONES AS INDICATED ON DRAWINGS (IE. PIPE CHASES, VENTILATION DUCTS, CASEWORK, AND SOFFITS, ETC.) MADE BY THE CUSTOMER OR REQUIRED BY A CUSTOMER'S ARCHITECTURAL FIRM ONCE PRELIMINARY DRAWINGS HAVE BEEN SUBMITTED AND APPROVED. DO NOT ALTER ANY SPECIFICATIONS AND/OR DIMENSIONS WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SMS PROJECT MANAGER.
- SMS IS NOT AN ARCHITECTURAL OR ENGINEERING FIRM. DRAWINGS SUPPLIED BY SMS ARE NOT CONSTRUCTION DRAWINGS. THEREFORE, THESE DRAWINGS ARE TO BE USED ONLY FOR INFORMATION TO COMPLEMENT ACTUAL CONSTRUCTION DRAWINGS AVAILABLE FROM A CUSTOMER APPOINTED ARCHITECTURAL REPRESENTATIVE OR A CUSTOMER'S ENGINEERING DESIGN GROUP. SMS REQUIRES THAT ONCE THE FINAL CONSTRUCTION DRAWINGS HAVE BEEN PREPARED, THEY SHALL BE MADE AVAILABLE TO SMS PROJECT MANAGER TO VERIFY THAT ALL REQUIREMENTS HAVE BEEN ADHERED TO. THE CUSTOMER'S ARCHITECT AND GENERAL CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CODES AND PROFESSIONAL DESIGN REQUIREMENTS.
- THE CUSTOMER IS RESPONSIBLE FOR ALL ROOM AND AREA PREPARATION COSTS, PROFESSIONAL FEES, PERMITS, REPORTS, AND INSPECTION FEES.
- EQUIPMENT WARRANTIES, EXPRESSED OR IMPLIED ON THE PART OF SMS SHALL BE CONTINGENT UPON STRICT COMPLIANCE WITH THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND RECOMMENDATIONS AND REQUIREMENTS CONTAINED IN THESE DRAWINGS, UNLESS SPECIFIED OTHERWISE.
- ALL DIMENSIONS SHOWN ARE TAKEN FROM FINISHED SURFACES UNLESS SPECIFIED OTHERWISE.
- THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST. ACTUAL PROTECTION REQUIREMENTS SHALL BE SPECIFIED BY A REGISTERED RADIATION PHYSICIST AT CUSTOMER'S ENGAGEMENT AND EXPENSE. RESPONSIBILITY FOR ALL INFORMATION AS TO THE ROOM LOCATION, USE, AND NUMBER OF ANTICIPATED EXAMINATIONS TO BE PERFORMED PER TIME PERIOD SHALL BE PROVIDED TO THE PHYSICIST BY THE CUSTOMER. THE CUSTOMER SHALL FURTHER TAKE ALL RESPONSIBILITY IN THE COMMUNICATION AND COORDINATION OF ACTIVITIES OF THE RADIATION PHYSICIST AND THE ARCHITECTURAL REPRESENTATIVE.
- SMS SHALL BE RESPONSIBLE FOR SMS EQUIPMENT INSTALLATION AND CALIBRATION, CONNECTION AND INSTALLATION OF SMS PROVIDED CABLES, AND CONNECTION OF CONTRACTOR PROVIDED WIRES TO SMS EQUIPMENT. IN THE EVENT THAT SPECIFIC TRADE RULES OR LICENSE REQUIREMENTS PROHIBIT THIS, THE CUSTOMER SHALL INITIATE THE SERVICES OF APPROVED OTHER CONTRACTORS AND PAY FOR SELECTED, APPROVED PARTIES TO PERFORM THIS WORK WITH JOB SUPERVISION TO BE PROVIDED BY SMS. CALIBRATION WHEN ACCOMPLISHED OUTSIDE OF NORMAL INSTALLATION SEQUENCES DUE TO CONTRACTOR OR TRADE RULE ACTIONS OR REQUIREMENTS SHALL BE SUPPORTED BY, CHARGED TO, AND ACCEPTED BY THE CUSTOMER AS AN ADDITIONAL INSTALLATION EXPENSE.
- THE CUSTOMER SHALL VERIFY WITH SMS PROJECT MANAGER FINAL INSTALLATION DRAWINGS THE LOCATIONS AND TRAVEL OF ALL ANCILLARY EQUIPMENT TO BE CEILING OR WALL MOUNTED (IE. O.R. LIGHTS, MEDICAL GAS COLUMNS, PHYSIOLOGICAL MONITORING INJECTORS, CRT PLATFORMS, SPRINKLER HEADS, SMOKE DETECTORS, ELECTRICAL OUTLETS, HVAC GRILLES, SPEAKERS, AND GENERAL ROOM LIGHTING, ETC.).
- THE GENERAL CONTRACTOR/CUSTOMER SHALL BE RESPONSIBLE FOR ALL FINAL PAINT, TOUCH-UP AND ANY COSMETIC OR TRIM WORK WHICH NEEDS TO BE OR IS REQUIRED TO BE COMPLETED AFTER THE INSTALLATION OF THE SMS EQUIPMENT AND ANY ASSOCIATED SUPPORT APPARATUS.

SITE READINESS GUIDELINES

- THE FOLLOWING GENERAL CONDITIONS ARE NECESSARY TO HAVE THE STATUS OF "READY SITE":
- PROPER POWER AVAILABLE AT SIEMENS EQUIPMENT POWER CABINET LOCATION AND ALL POWER OUTLETS FUNCTIONING.
 - AIR CONDITIONING/HUMIDIFICATION SYSTEMS COMPLETE, TESTED, AND FUNCTIONING PROPERLY ACCORDING TO SIEMENS SPECIFICATIONS.
 - PROPER LIGHTING INSTALLED AND FUNCTIONING.
 - PLUMBING COMPLETE EXCEPT FOR ANY FINAL CONNECTIONS TO SIEMENS EQUIPMENT.
 - ALL CABLE TRAYS/DUCTS/CONDUITS CORRECTLY SIZED, LOCATED, AND INSTALLED ACCORDING TO THE SIEMENS DRAWINGS.
 - ALL REINFORCEMENT PLATES/UNISTRUT INSTALLED AS REQUIRED.
 - ROOM FOR EQUIPMENT INSTALLATION AND IMMEDIATE VICINITY IS DUST-FREE AND IS TO REMAIN SO FOR THE DURATION OF THE INSTALLATION.
 - A SECURE AREA (APPROXIMATELY 10' x 10') IS AVAILABLE AT EQUIPMENT DELIVERY FOR PARTS AND INSTALLATION TOOLS.
 - CUSTOMER SUPPLIED CAMERAS AND PROCESSORS INSTALLED.
 - CUSTOMER APPROVAL FOR SIEMENS REMOTE SERVICES (SRS) CONNECTION, AND CUSTOMER'S I.T. CONTACT INFORMATION AND IP ADDRESSES ESTABLISHED.
 - WALLS TO BE PRIMED AND PAINTED, FLOORS TO BE TILED EXCEPT IN AREAS OF THE EQUIPMENT BASE PLATES.
- IF THESE CONDITIONS ARE NOT MET, THE SIEMENS PROJECT MANAGER AND THE DESIGNATED SIEMENS INSTALLATION SUPERVISOR SHALL RESCHEDULE THE INSTALLATION START DATE. NOTE: ADDITIONAL COST MAY BE INCURRED BY THE CUSTOMER/CONTRACTOR AND DELIVERY DATES MAY NEED TO BE RESCHEDULED, WHEN THE SIEMENS SITE READINESS GUIDELINES ARE NOT MET.

RESOURCE LIST (SMS USE ONLY)

DESIGNATION	PG NUMBER	DATE
SOMATOM DEFINITION FLASH	C2-030.891.01.03.02	07.10
COMMON CT	CT00-000.891.02.08.02	02.11
COMMON OPTIONS CT	CT00-000.891.03.09.02	02.11

DEFINITION FLASH
03/11/11

PROJECT MANAGER: ROBERT SANDERS
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VMAIL: (707) 552-7923
FAX: (707) 552-7923
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SIEMENS

VA PALO ALTO 640

3801 MIRANDA AVENUE (04D), PALO ALTO, CA 94304
CT SUITE E2-453 - SOMATOM DEFINITION FLASH

PROJECT #:

1101626

SHEET:

A-101

SHEET 1 OF 9

DRAWN BY: J. DRAMS

DATE: 9/22/11

CHECKED:

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.

ALL RIGHTS ARE RESERVED.

SCALE: AS NOTED

REF. #:

1-17EHEY

FINISHED ROOM HEIGHT

FOR CT GANTRY ONLY	MINIMUM 7'-2 5/8"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-7 1/2" MAX. 11'-2 5/8"

ATTENTION:

- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.
- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
- THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

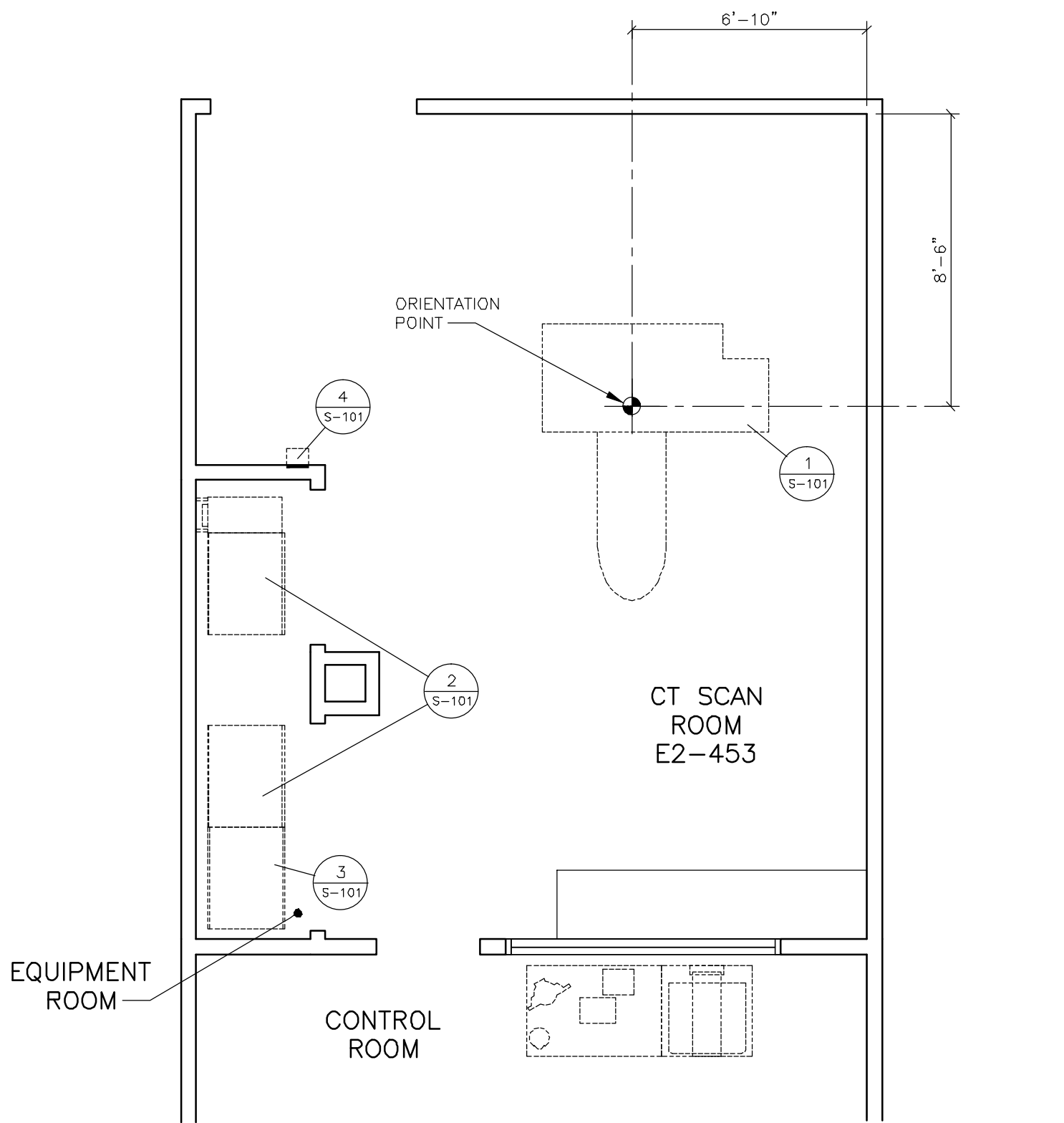
09/22/11

R-1010B VERSION DATED 08/31/11
APPROVED BY CUSTOMER FOR FINALS

SYM DATE DESCRIPTION

-ISSUE BLOCK-

NOTE: FOR THE WEIGHTS OF ALL SIEMENS EQUIPMENT SHOWN ON THIS PLAN, SEE THE "EQUIPMENT LEGEND" ON SHEET A-101.

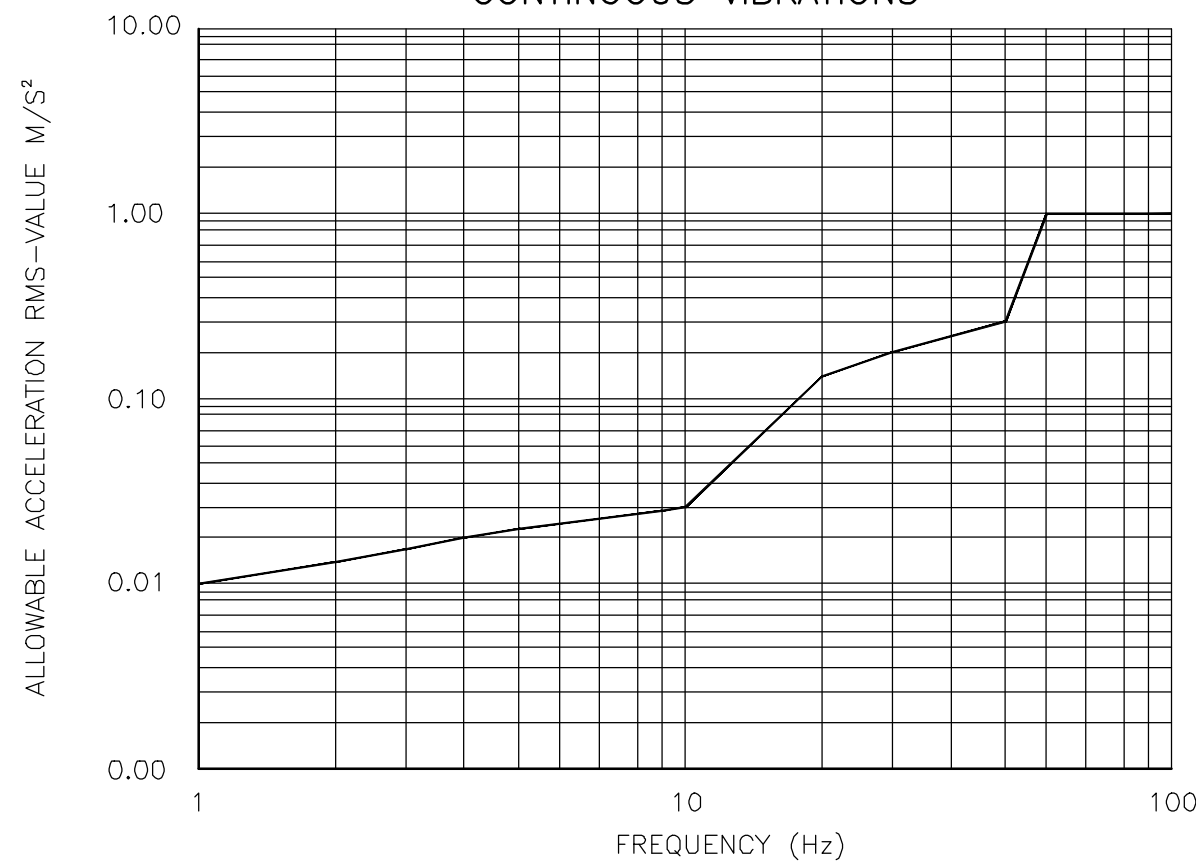


STRUCTURAL FLOOR PLAN

SCALE: 1/4" = 1'-0"

FLOOR AND BUILDING VIBRATIONS

CONTINUOUS VIBRATIONS



THE CT SYSTEM IS NOT SENSITIVE TO COMMON VIBRATIONS. IF THE CT IS AWAY FROM VIBRATIONAL SOURCES OR THE CT IS REPLACING A CT SYSTEM, THAT TO DATE, HAS NOT SHOWN IMAGE QUALITY PROBLEMS DUE TO VIBRATIONS, IT IS USUALLY NOT NECESSARY TO EXECUTE VIBRATIONAL MEASUREMENTS. IF THERE ARE ANY DOUBTS, THE FOLLOWING THRESHOLDS HAVE TO BE VERIFIED BY MEASUREMENT. IN THE THREE SPACIAL DIRECTIONS, ACCELERATION IN VIBRATIONS AT THE MOUNTING POINTS OF THE COMPUTED TOMOGRAPHY SYSTEM (GANTRY AND THE PATIENT HANDLING SYSTEM PHS) MUST NOT EXCEED THE THRESHOLDS AS DESCRIBED HERE. THE THRESHOLD IS DEFINED AS ACCELERATION RMS VALUE (ROOT MEAN SQUARE) IN M/S² OF AN FFT SPECTRUM DERIVED WITH A FREQUENCY RESOLUTION OF 1 Hz AND USING A HANNING-WINDOW. THE VIBRATIONS HAVE TO BE MEASURED WITH A SAMPLING RATE OF 1000Hz USING AN ANTI-ALIASING-FILTER WITH A LIMIT FREQUENCY OF 250Hz. THE THRESHOLD IS VALID FOR VIBRATIONS AT THE INSTALLATION LOCATION WITH A CT IN POSITION. MEASUREMENTS ARE USUALLY TAKEN AT THE SITE BEFORE THE INSTALLATION OF THE CT. CHANGES IN THE EIGENFREQUENCY OF THE SLAB CAUSED BY THE ADDITIONAL MASS OF THE CT HAVE TO BE CONSIDERED WHEN COMPARING THE FREQUENCY SPECTRUM WITH THE THRESHOLD. VALUES OF THE THRESHOLD ARE SHOWN BELOW.

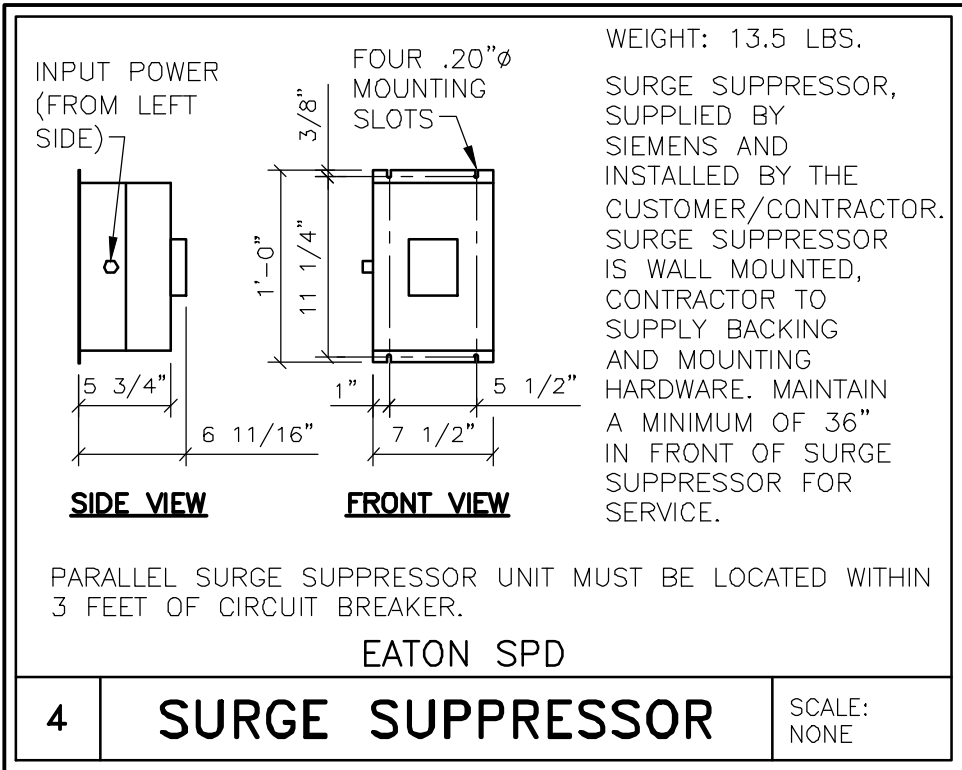
THRESHOLD VALUES OF ALLOWABLE ACCELERATION (RMS VALUE OF 1 Hz RESOLUTION FFT)

FREQUENCY (Hz)	ACCELERATION RMS (M/S ²)
1	0.010
2	0.014
3	0.017
4	0.019
5	0.022
6	0.024
7	0.025
8	0.027
9	0.029
10	0.030
11	0.037
12	0.046
13	0.055
14	0.066

FREQUENCY (Hz)	ACCELERATION RMS (M/S ²)
15	0.077
16	0.089
17	0.103
18	0.117
19	0.133
20	0.150
25	0.178
30	0.204
35	0.229
40	0.253
45	0.277
50	0.300
55	0.563
≥60	1.000

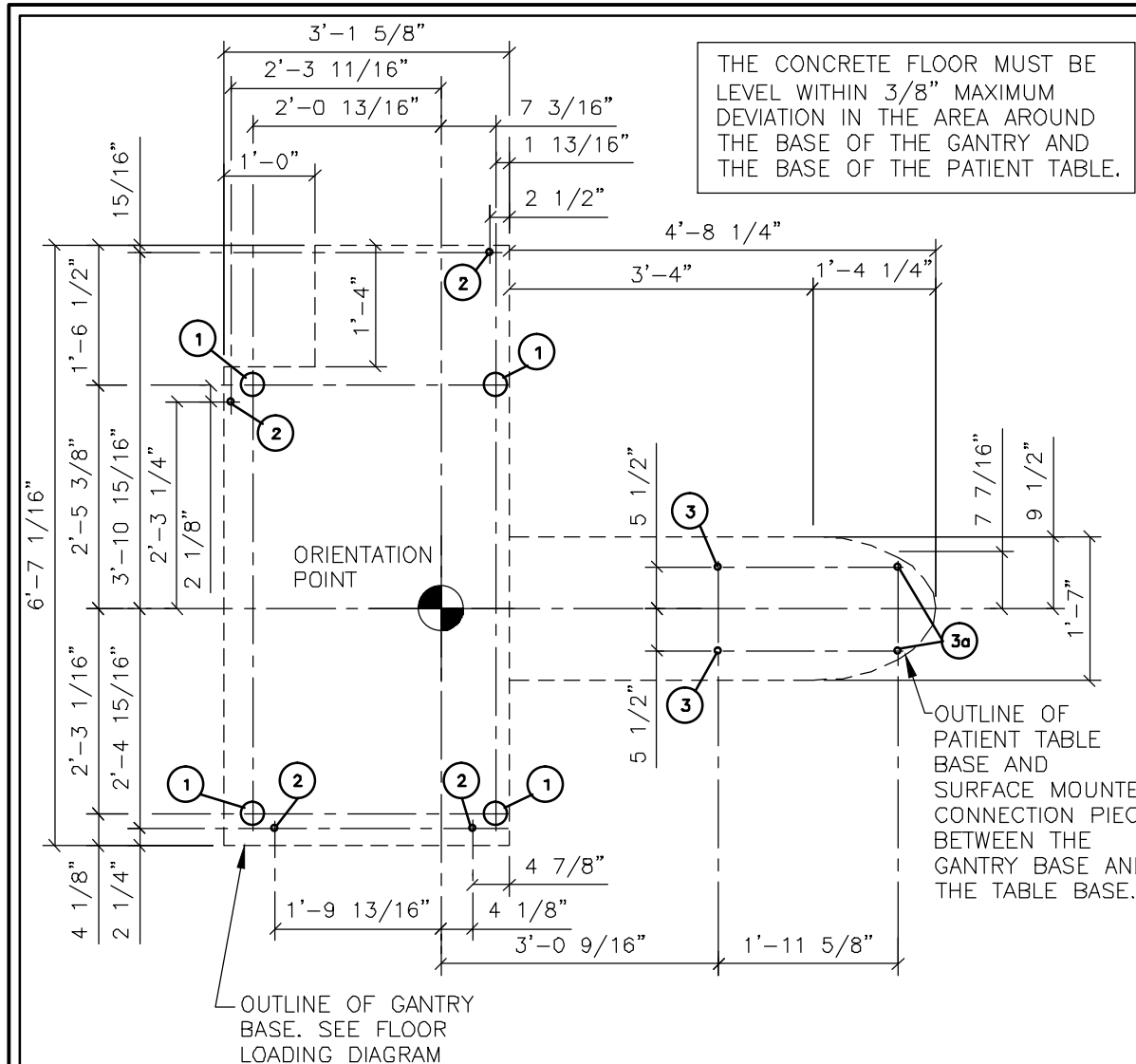
TRANSIENT VIBRATIONS (SHOCKS)

ANY TRANSIENT VIBRATION HAS TO BE LESS THAN 0.5 M/S² PEAK-TO-PEAK IN THE TIME DOMAIN. THE VIBRATIONS HAVE TO BE MEASURED WITH A SAMPLING RATE OF 1000Hz.



4 SURGE SUPPRESSOR

SCALE: NONE



THE GANTRY AND PATIENT TABLE ARE SUPPLIED AND INSTALLED BY SIEMENS.

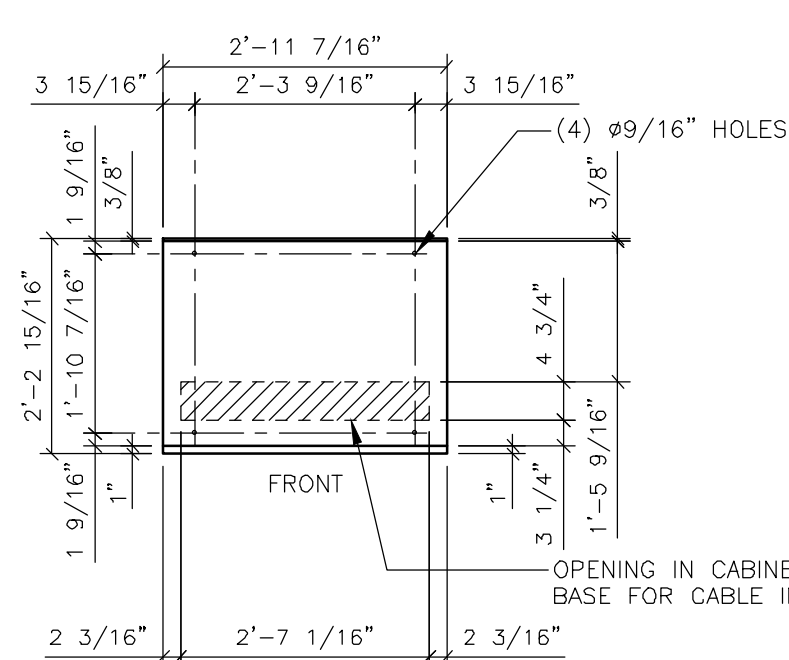
- (4) ADJUSTABLE FEET OF GANTRY - $\phi 3/8"$.
- (4) $\phi 7/8"$ HOLES IN THE GANTRY BASE FOR MOUNTING THE GANTRY TO THE FLOOR IF REQUIRED, EX. EARTHQUAKE ZONES.
- (4) $\phi 13/16"$ MOUNTING HOLES / ADJUSTABLE FEET TO MOUNT THE PATIENT TABLE TO THE FLOOR.
- (4) MAXIMUM POSSIBLE EXTRACTION FORCE AT THESE POINTS IS 1824 POUNDS WITH A 507 POUND PATIENT (INCLUDES SAFETY-FACTOR 4).

GANTRY AND PATIENT TABLE MOUNTING DETAIL

SCALE: 1/2"=1'-0"

POWER DISTRIBUTION CABINET A AND POWER DISTRIBUTION CABINET B

THE FOOTPRINTS OF PDCA AND PDCB ARE IDENTICAL.

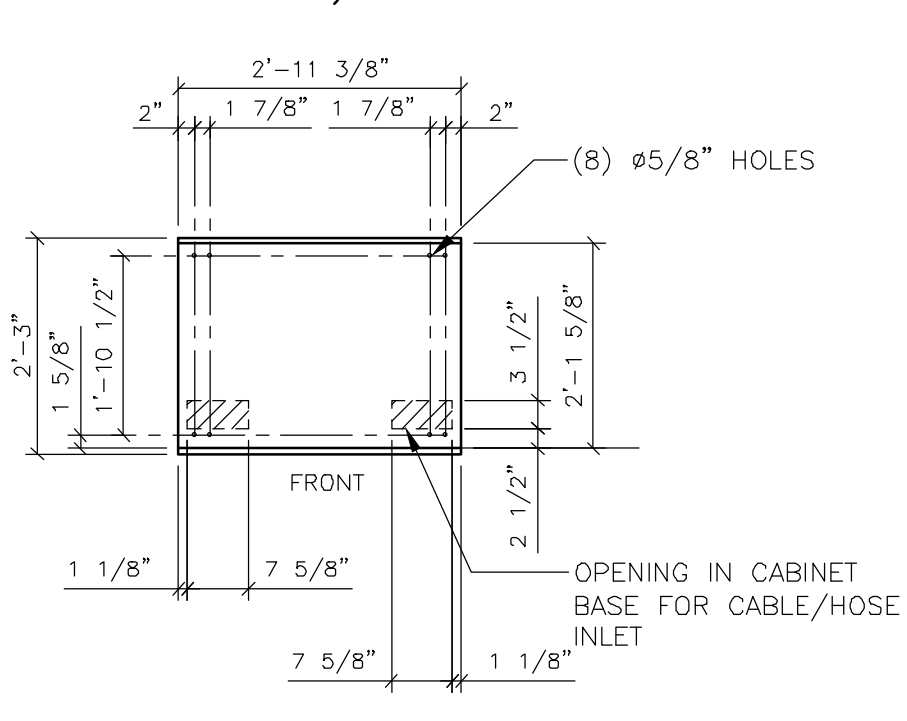


BOLTING THE POWER DISTRIBUTION CABINETS TO THE FLOOR IS ONLY NECESSARY WHEN LOCAL OR NATIONAL REGULATIONS REQUIRE IT. (EXAMPLE: EARTHQUAKE ZONES). BOLT THE CABINETS TO THE FLOOR USING ANCHORS THROUGH THE DRILL HOLES IN THE FLOOR PLATE. MATERIALS FOR BOLTING MUST BE SUPPLIED ON-SITE.

PDC CABINET BASE

SCALE: 1/2"=1'-0"

HEAT EXCHANGER CABINET (WATER/AIR SPLIT COOLING SYSTEM)



BOLTING THE HEAT EXCHANGER CABINET TO THE FLOOR IS ONLY NECESSARY WHEN LOCAL OR NATIONAL REGULATIONS REQUIRE IT. (EXAMPLE: EARTHQUAKE ZONES). BOLT THE CABINET TO THE FLOOR USING ANCHORS THROUGH THE DRILL HOLES IN THE FLOOR PLATE. MATERIALS FOR BOLTING MUST BE SUPPLIED ON-SITE.

HE CABINET BASE

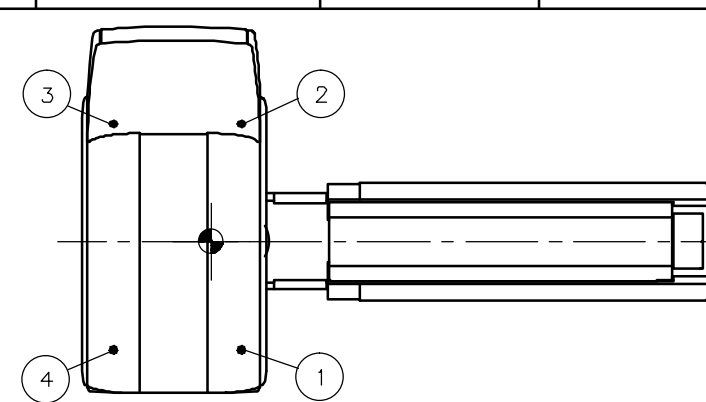
SCALE: 1/2"=1'-0"

STRUCTURAL NOTES

- 1) THE CUSTOMER/CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL SUPPORT MEMBERS AND NEEDED HARDWARE FOR THE INSTALLATION OF THE SIEMENS EQUIPMENT.
- 2) THE OVERHEAD STRUCTURAL SUPPORT SYSTEM SHALL BE FIXED, RIGID AND BRACED FOR SWAY.
- 3) ALL STRUCTURAL SUPPORT MEMBERS SHALL BE TRUE, SQUARE, LEVEL, PARALLEL AND COPLANAR WITH RESPECT TO EACH OTHER, WITH A HORIZONTAL STRUCTURAL SUPPORT MEMBER TO BE LOCATED AND SET WITH A TRANSIT.
- 4) ALL STRUCTURAL SUPPORT DETAILS SHOWN ARE SAMPLE DETAILS BASED UPON TYPICAL AND STANDARD BUILDING PRACTICES AND ARE NOT INTENDED AS ACTUAL CONSTRUCTION DETAILS. ALL CONSTRUCTION DETAILS AND SUPPORT CALCULATIONS SHALL BE PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER AT THE CUSTOMER'S EXPENSE. IN THE EVENT AN EXISTING SUPPORT SYSTEM IS TO BE USED, IT WILL BE THE CUSTOMER'S RESPONSIBILITY TO VERIFY THE INTEGRITY OF THAT SYSTEM.
- 5) WHERE SHOWN ON THE 1/4" STRUCTURAL FLOOR PLAN, THERE ARE ON OCCASION MOUNTING FRAMES FURNISHED BY SMS. THESE FRAMES ARE TO BE SET BY THE CONTRACTOR, UNDER THE SUPERVISION OF SMS PERSONNEL. THE CUSTOMER/CONTRACTOR IS RESPONSIBLE FOR ALL FRAMES INSTALLED BY HIM TO BE WATER LEVEL AND ANCHORED PROPERLY.
- 6) ALL CEILING FIXTURES (i.e. AIR SUPPLY GRILLES, AIR RETURN GRILLES, EXHAUST GRILLES, SPRINKLER HEADS, INCANDESCENT AND FLUORESCENT LIGHT FIXTURES, INTERCOM SPEAKERS, MEDICAL GAS COLUMNS, ETC.) SHALL BE INSTALLED FLUSH MOUNTED WITH THE FINISHED CEILING TO PROVIDE FREE AND UNRESTRICTED TRAVEL OF THE SMS CEILING MOUNTED EQUIPMENT.
- 7) THE BOTTOM SIDE OF THE UNISTRUT CEILING GRID AND ANY CEILING MOUNTED SUPPORT PLATES ARE TO BE INSTALLED FLUSH WITH THE FINISHED CEILING. THE CUSTOMER/CONTRACTOR SHALL ALSO PROVIDE COVERSTRIPS FOR THE UNISTRUT.
- 8) THE STRUCTURAL PLANNING AS SHOWN ON THE 1/4" STRUCTURAL FLOOR PLAN HAS BEEN COORDINATED WITH THE EQUIPMENT LOCATION AS SHOWN ON THE 1/4" EQUIPMENT LAYOUT PLAN. FOR THIS REASON, ANY DEVIATIONS FROM THE STRUCTURAL PLANNING AS SHOWN MUST BE APPROVED BY SMS PLANNING DEPARTMENT.
- 9) THE STRUCTURAL ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR THE DESIGN AND DETAIL OF FLOOR, WALL AND CEILING STRUCTURES IN ACCORDANCE WITH THE WEIGHTS, MOMENTS AND FORCES AS SHOWN ON OUR STRUCTURAL CALCULATIONS, OR INFORMATION, IN CONSIDERATION OF FORCES AS DETERMINED PER LOCAL GOVERNING BUILDING CODES.

FLOOR LOADING

DESCRIPTION			
F STAT MAX	STATIC FLOOR LOADING DUE TO GANTRY'S OWN WEIGHT		
AMPLITUDE	DIFFERENCE BETWEEN MINIMUM AND MAXIMUM FLOOR LOADING DURING GANTRY ROTATION		
MEASUREMENT POINTS			
ADJUSTABLE FOOT	F STAT MAX (POUNDS)	AMPLITUDE FOR F DYN (POUNDS)	BEARING AREA PER ADJUSTABLE FOOT
(1)	1272	±152	7 3/4 IN ²
(2)	1717	±156	
(3)	1768	±171	
(4)	1476	±175	



NOTE:

- 1) THE VALUES PROVIDED FOR FLOOR LOADING APPLY ONLY IF THE GANTRY IS SATISFACTORILY LEVELED.
- 2) THE FLOOR STRUCTURE MUST BE CAPABLE OF WITHSTANDING THE OCCUPIED WEIGHT OF THE GANTRY AND THE INDIVIDUAL CONTACT AREA LOADING.

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— ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.

— THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

FINISHED ROOM HEIGHT

FOR CT GANTRY ONLY	MINIMUM 7'-2 5/8"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-7 1/2" MAX. 11'-2 5/8"

SYM	DATE	DESCRIPTION
△	09/22/11	R-101RB VERSION DATED 08/31/11 APPROVED BY CUSTOMER FOR FINALS
—ISSUE BLOCK—		

PROJECT MANAGER: ROBERT SANDERS
TEL: (707) 246-0670 EXT:
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3801 MIRANDA AVENUE (04D), PALO ALTO, CA 94304

CT SUITE E2-453 - SOMATOM DEFINITION FLASH

PROJECT #:

1101626

SHEET: 3 OF 9

DRAWN BY: J. DRAMIS

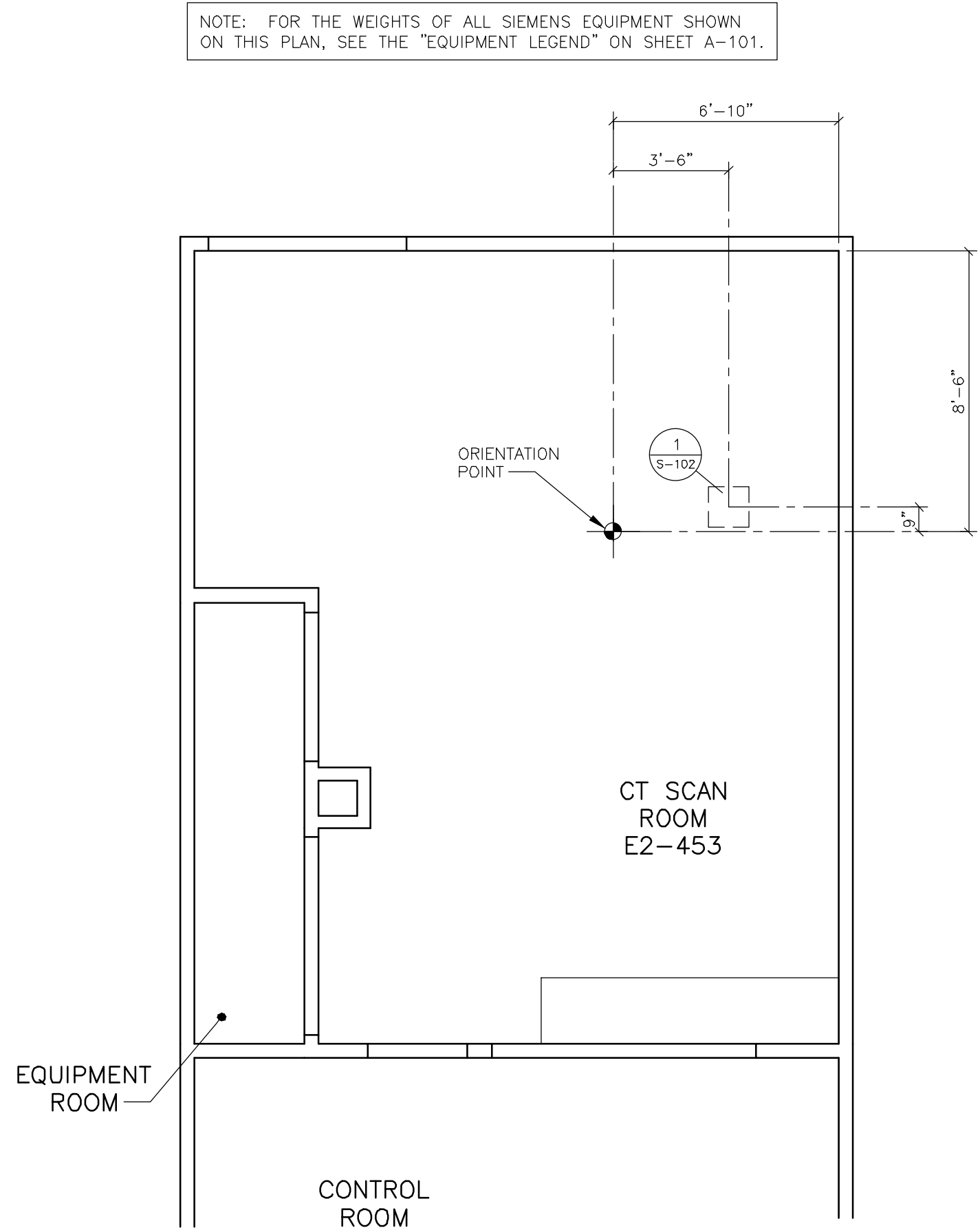
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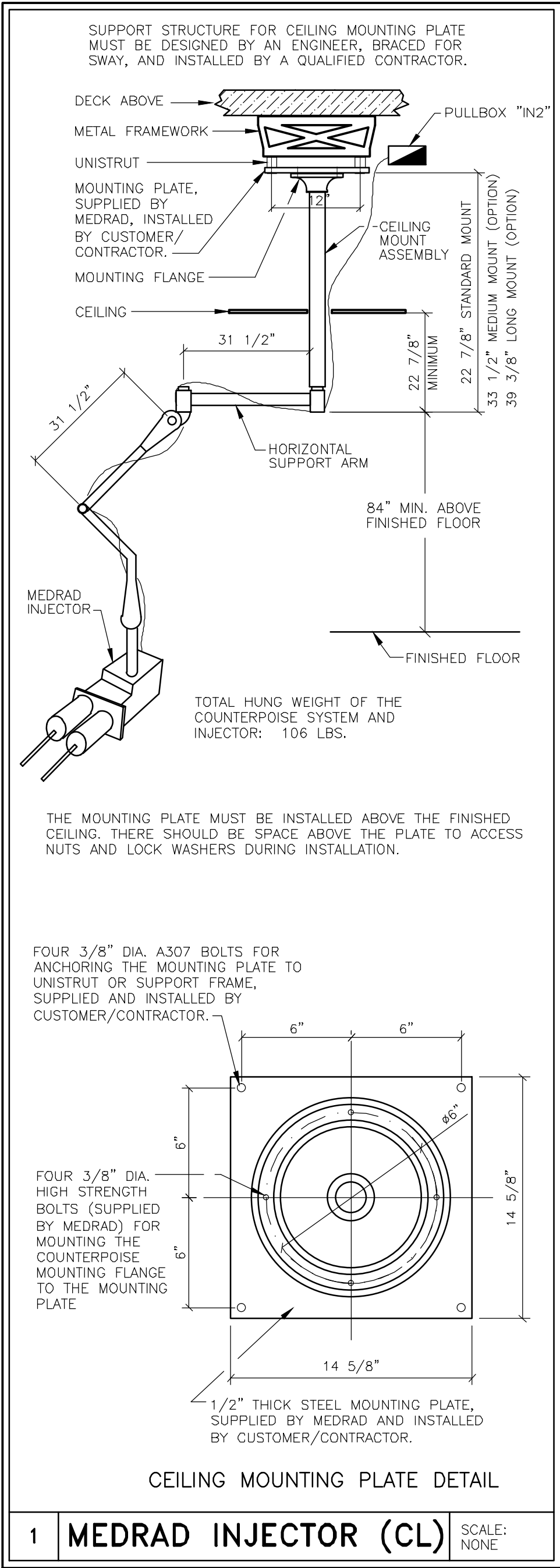
S-101

DEFINITION FLASH
03/11/11



STRUCTURAL CEILING PLAN

SCALE: 1/4" = 1'-0"



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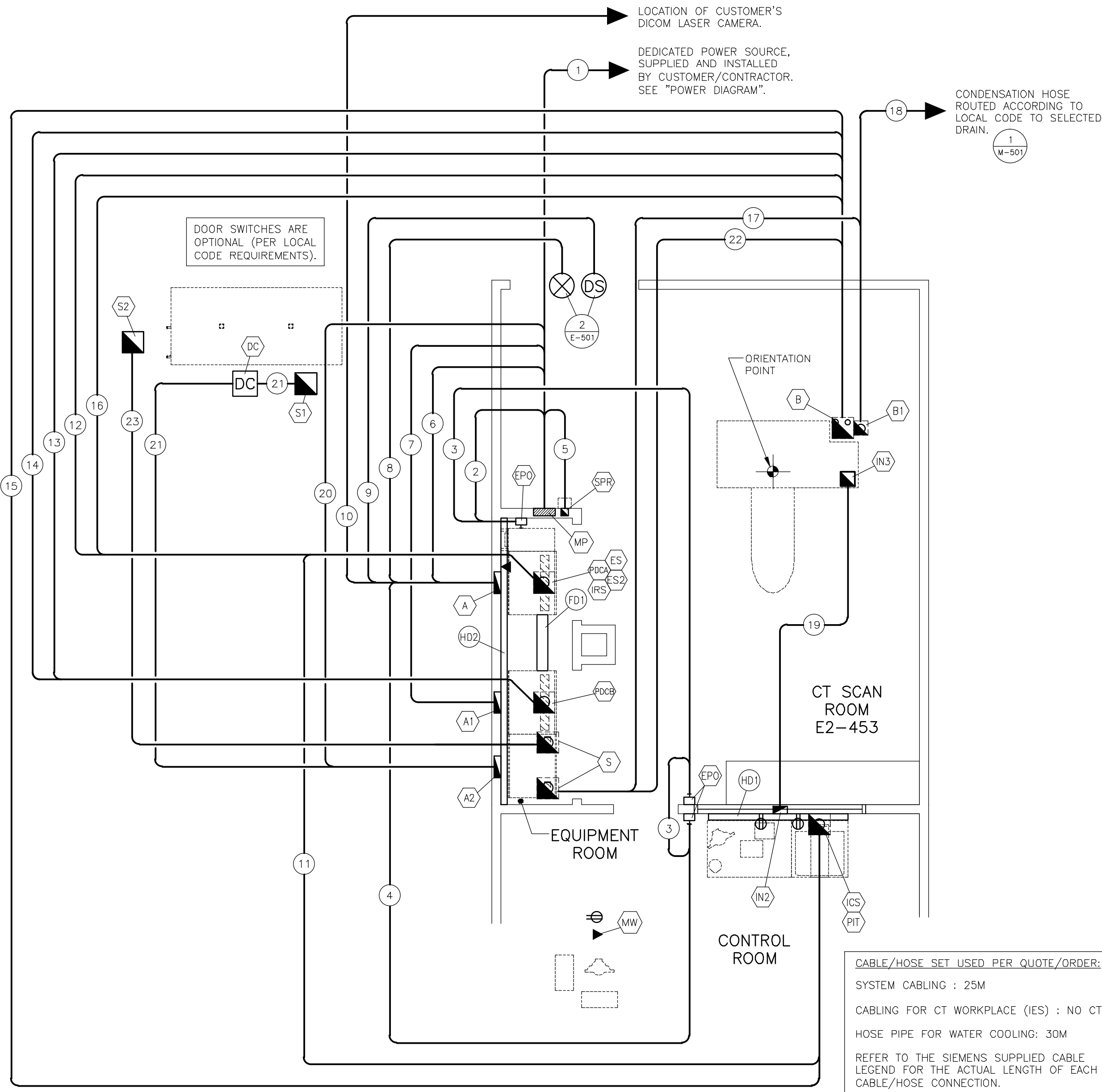
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			PROJECT MANAGER: ROBERT SANDERS TEL: (707) 246-0670 EXT: VMAIL: (707) 552-7923 FAX: (707) 552-7923 EMAIL: Robert.Sanders@siemens.com			SIEMENS		
			VA PALO ALTO 640			3801 MIRANDA AVENUE (04D), PALO ALTO, CA 94304 CT SUITE E2-453 - SOMATOM DEFINITION FLASH		
			THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.			PROJECT #: 1101626		
			ALL RIGHTS ARE RESERVED.			SHEET: S-102		
			SCALE: AS NOTED			REF. #: 1-17EHEY		
			DATE: 09/22/11			DATE: 9/22/11		
			DESCRIPTION: R-101RB VERSION DATED 08/31/11 APPROVED BY CUSTOMER FOR FINALS			DRAWN BY: J. DRAMIS		
			SYM: DATE: DESCRIPTION:			CHECKED:		
			—ISSUE BLOCK—					

DEFINITION FLASH
03/11/11

REFERENCE DOCUMENT - NOT FOR CONSTRUCTION



ELECTRICAL RACEWAY PLAN

SCALE: 1/4" = 1'-0"

CONDUIT LENGTH CALCULATIONS

IF SITE SPECIFIC CONDITIONS EXCEED THE FOLLOWING ASSUMED VALUES THEN ADDITIONAL LENGTH MUST BE SUBTRACTED BY THE ELECTRICAL CONTRACTOR FROM THE MAXIMUM CONDUIT LENGTHS LISTED.

IF DUCT LOCATIONS ARE ALTERED FROM THE SHOWN LAYOUT IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO RECALCULATE THE MAXIMUM CONDUIT LENGTHS.

ASSUMED VALUES USED IN CALCULATING STATED MAXIMUM CONDUIT LENGTHS:

VERTICAL DUCTS - 10'-0"

FLOOR PENETRATIONS - 3'-0"

CONTRACTOR SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
POWER SOURCE	1	MP	3-PHASE CONDUCTORS, 1 NEUTRAL, 1 GROUND ALL TO BE THE SAME SIZE. SIZED BY ELECTRICAL ENGINEER.	SEE POWER DIAGRAM
MP	2	EPO	DETERMINED BY ELECTRICAL CONTRACTOR.	SEE POWER DIAGRAM
EPO	3	EPO	DETERMINED BY ELECTRICAL CONTRACTOR.	SEE POWER DIAGRAM
EPO	4,A	PDCA	2 - #12	SEE POWER DIAGRAM
MP	5	SPR	3-PHASE CONDUCTORS, 1 NEUTRAL AND 1 GROUND ALL TO BE THE SAME SIZE. SIZED BY ELECTRICAL ENGINEER.	SEE POWER DIAGRAM
MP	6,A	PDCA	3 PHASE CONDUCTORS, 1 NEUTRAL AND 1 GROUND ALL TO BE THE SAME SIZE. MAX. 3/0. SIZED BY ELECTRICAL CONTRACTOR.	SEE POWER DIAGRAM
MP	7,A1	PDCA	3 PHASE CONDUCTORS, 1 NEUTRAL AND 1 GROUND ALL TO BE THE SAME SIZE. MAX. 3/0. SIZED BY ELECTRICAL CONTRACTOR.	SEE POWER DIAGRAM
PDCA	A,8	WARNING LIGHT	DETERMINED BY ELECTRICAL CONTRACTOR.	
PDCA	A,9	DS	DETERMINED BY ELECTRICAL CONTRACTOR.	
PDCA	A,10	LASER CAMERA	DICOM LASER CAMERA ETHERNET CABLE	
MP	20,A2	S	3 PHASE CONDUCTORS AND 1 GROUND ALL TO BE THE SAME SIZE. SIZED BY ELECTRICAL CONTRACTOR.	W/A SPLIT COOLING SYSTEM SEE POWER DIAGRAM

ELECTRICAL LEGEND			
SYM	SIZE	DESCRIPTION	REMARKS
AS	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOORLINE IN SHOWN LOCATION.	ANCILLARY WIRING
AS	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOORLINE IN SHOWN LOCATION.	
AS	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOORLINE IN SHOWN LOCATION.	
AS	AS REQUIRED	PULL BOX MOUNTED BELOW FLOOR SLAB WITH A 3 1/2" COREDRILL WITH SLEEVE AND A 3" COREDRILL WITH SLEEVE THROUGH THE SLAB ENDING FLUSH WITH THE FINISHED FLOOR IN SHOWN LOCATIONS.	GANTRY CABLE ACCESS
AS	AS REQUIRED	PULL BOX MOUNTED BELOW FLOOR SLAB WITH A 5" COREDRILL WITH SLEEVE THROUGH THE SLAB ENDING FLUSH WITH THE FINISHED FLOOR IN SHOWN LOCATION.	GANTRY CABLE ACCESS
---	---	DISCONNECT SWITCH MOUNTED NEAR OUTDOOR UNIT TO DISCONNECT POWER SUPPLY FROM INDOOR UNIT. SUPPLIED BY SIEMENS, INSTALLED BY CUSTOMER/CONTRACTOR IN ACCORDANCE WITH LOCAL CODES.	OUTDOOR UNIT-WATER/AIR SPLIT
---	---	EMERGENCY POWER OFF BUTTON THAT PREVENTS RESETTNG OF CIRCUIT BREAKER WHEN IN THE OFF POSITION WITH PROTECTIVE COVER, MOUNTED ON WALL AT 5'-0" ABOVE FINISHED FLOOR. THERE SHALL BE AN EPO IN EACH ROOM OF THE SUITE WHERE SIEMENS EQUIPMENT IS LOCATED. EXACT LOCATIONS TO BE DETERMINED BY CUSTOMER/CONTRACTOR.	SEE POWER DIAGRAM
---	---	ETHERNET SWITCH FOR ICS, IRS, GANTRY & PDC'S SUPPLIED BY SIEMENS. LOCATED INSIDE PDCA CABINET.	
---	---	ETHERNET SWITCH FOR REMOTE IES, DICOM CAMERAS & NETWORK PRINTER SUPPLIED BY SIEMENS. LOCATED INSIDE PDCA CABINET.	
AS	AS REQUIRED	PULL BOX MOUNTED BELOW FLOOR SLAB WITH 6" COREDRILL WITH SLEEVE THROUGH SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	IMAGE CONSTRUCTION SYS.
AS	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL IN CONTROL AREA, EXACT LOCATION TO BE COORDINATED WITH SIEMENS PROJECT MANAGER.	INJECTOR ELECTRONICS
AS	AS REQUIRED	PULL BOX MOUNTED ABOVE FINISHED CEILING IN SHOWN LOCATION.	CEILING MTD. INJECTOR
---	---	FIXPOINT DESIGNATION, SAME PULL BOX/OPENING AS PDCA.	
3-PHASE	3-PHASE	MAIN PANEL - FOR UNITS WITH MULTIPLE CIRCUIT BREAKERS. EXACT LOCATION DETERMINED BY CUSTOMER/CONTRACTOR.	REFER TO POWER DIAGRAM FOR INDIVIDUAL CIRCUIT BREAKERS
---	---	ETHERNET CONNECTION TO HOSPITAL NETWORK, EXACT LOCATION TO BE COORDINATED WITH SIEMENS PROJECT MANAGER.	LEONARDO WORKSTATION
AS	AS REQUIRED	PULL BOX MOUNTED TO UNDERSIDE OF FLOOR SLAB WITH 6" COREDRILL WITH SLEEVE THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	POWER DISTRIBUTION CAB.
AS	AS REQUIRED	PULL BOX MOUNTED TO UNDERSIDE OF FLOOR SLAB WITH 6" COREDRILL WITH SLEEVE THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	POWER DISTRIBUTION CAB.
AS	AS REQUIRED	TWO PULL BOXES MOUNTED BELOW THE FLOOR SLAB WITH TWO 6" COREDRILLS WITH SLEEVES THROUGH THE FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATIONS.	HEAT EXCHANGER CABINET-WATER/AIR SPLIT
AS	AS REQUIRED	PULL BOX THAT IS PROVIDED ON THE OUTDOOR COOLING UNIT.	OUTDOOR COOLING UNIT-WATER/AIR SPLIT
AS	AS REQUIRED	PULL BOX MOUNTED ADJACENT TO OUTDOOR COOLING UNIT PROVIDED WITH FLEX-TITE CONDUIT FROM PULL BOX TO WATER HOSE CONNECTIONS ON OUTDOOR COOLING UNIT.	OUTDOOR COOLING UNIT-WATER/AIR SPLIT
AS	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL PROVIDED WITH 2" OPENING IN FINISHED COVER. THE SURGE SUPPRESSOR MUST BE LOCATED WITHIN 3 FEET CABLE RUN FROM CIRCUIT BREAKER, AT HEIGHT DETERMINED BY CUSTOMER/ CONTRACTOR.	SEE DETAIL S-101
6" x 3 1/2"	6" x 3 1/2"	ELECTRICAL DUCT SURFACE MOUNTED ON FLOOR AND PARALLEL WITH THE FLOOR SLAB IN SHOWN LOCATION, PROVIDED WITH REMOVABLE COVERS.	RACEWAY
10" x 3 1/2"	10" x 3 1/2"	ELECTRICAL DUCT RUN HORIZONTALLY ON THE WALL AT THE FLOORLINE AND SURFACE MOUNTED ON FINISHED WALL AS SHOWN FOR EXCESS CABLE STORAGE.	RACEWAY
1	AS REQUIRED	CONDUIT FROM POWER SOURCE TO "MP" SIZED BY ELECTRICAL CONTRACTOR.	SEE POWER DIAGRAM
2	AS REQUIRED	CONDUIT FROM "MP" TO "EPO" SIZED BY ELECTRICAL CONTRACTOR.	SEE POWER DIAGRAM
3	AS REQUIRED	CONDUIT FROM "EPO" TO "EPO" SIZED BY ELECTRICAL CONTRACTOR.	SEE POWER DIAGRAM
4	AS REQUIRED	CONDUIT FROM "EPO" TO "A" (PDCA/UPS), SIZED BY ELECTRICAL CONTRACTOR.	SEE POWER DIAGRAM
5	AS REQUIRED	CONDUIT FROM "MP" TO "SPR" SIZED BY ELECTRICAL CONTRACTOR.	SEE POWER DIAGRAM
6	AS REQUIRED	CONDUIT FROM "MP" TO "A" (PDCA), SIZED BY ELECTRICAL CONTRACTOR.	SEE POWER DIAGRAM
7	AS REQUIRED	CONDUIT FROM "MP" TO "A1" (PDCA), SIZED BY ELECTRICAL CONTRACTOR.	SEE POWER DIAGRAM
8	AS REQUIRED	CONDUIT FROM "A" (PDCA) TO "WARNING LIGHT".	
9	AS REQUIRED	CONDUIT FROM "A" (PDCA) TO "DS".	
10	AS REQUIRED	CONDUIT FROM "A" (PDCA) TO LOCATION OF CUSTOMER'S DICOM LASER CAMERA.	
11	2-1/2"	CONDUIT FROM "PDCA" TO "ICS/PIT".	MAX. CONDUIT LENGTH 72'-0"
12	(3) 3"	CONDUITS FROM "PDCA" TO "B" WITH A MINIMUM 6" BENDING RADIUS.	MAX. CONDUIT LENGTH 72'-0"
13	3"	CONDUIT FROM "PDCA" TO "B" WITH A MINIMUM 6" BENDING RADIUS.	MAX. CONDUIT LENGTH 72'-0"
14	2-1/2"	CONDUIT FROM "PDCA" TO "B".	MAX. CONDUIT LENGTH 72'-0"
15	3"	CONDUIT FROM "B" TO "ICS/PIT".	MAX. CONDUIT LENGTH 72'-0"
16	1-1/2"	CONDUIT FROM "B" TO "IRS".	MAX. CONDUIT LENGTH 72'-0"
17	(2) 3"	CONDUITS, IF REQUIRED PER LOCAL CODE, FROM "S" TO "B1". TO CONTAIN SIEMENS COOLING WATER HOSES WITH A MINIMUM 6" BENDING RADIUS.	MAX. CONDUIT LENGTH 90'-0" SEE SHEET M-101
18	1"	CONDUIT, IF REQUIRED PER LOCAL CODE, FOR CONDENSATION HOSE FROM "B1" TO SELECTED DRAIN TYPE. THE MINIMUM BENDING RADIUS IS 1 3/16".	MAX. CONDUIT LENGTH 29'-0"
19	2-1/2"	CONDUIT FROM "IN2" TO "IN3". VERIFY LENGTH RESTRICTIONS WITH MANUFACTURER.	
20	AS REQUIRED	CONDUIT FROM "MP" TO "A2" (S), SIZED BY ELECTRICAL CONTRACTOR.	SEE POWER DIAGRAM
21	1-1/2"	CONDUIT FROM "A2" (S) TO "DC" AND "DC" TO "S1".	MAX. CONDUIT LENGTH 131'-0"
22	1-1/2"	CONDUIT FROM "S" TO "B".	MAX. CONDUIT LENGTH 92'-0"
23	(2) 3"	CONDUITS, IF REQUIRED PER LOCAL CODE, FROM "S" TO "S2". THE MINIMUM BENDING RADIUS IS 12.5".	MAX. CONDUIT LENGTH 113'-0" SEE SHEET M-101

ELECTRICAL NOTES

- COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA-70), O.S.H.A. REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF CITY, COUNTY, STATE AND FEDERAL AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY TO ANSI, IEEE AND NEMA STANDARDS. WHERE APPLICABLE, PROVIDE ONLY MATERIALS AND PRODUCTS THAT ARE UL LISTED AND LABELED. CUSTOMER'S/CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF NECA STANDARD OF INSTALLATION.
- QUALITY ASSURANCE: THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT TO THE EXISTING STRUCTURE AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST OR BE DISCOVERED THAT PREVENT THE INSTALLATION OF WORK AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OF EQUIPMENT, OR THE PERFORMANCE OF ANY WORK THAT MAY BE AFFECTED. DO NOT ALTER DRAWINGS, DIMENSIONS, OR SPECIFICATIONS IN ANY WAY WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SMS PROGRAM MANAGER. ALL DIMENSIONS ARE FROM FINISHED SURFACES. CONDUIT AND PULL BOXES TO BE INSTALLED BY THE CUSTOMER/CONTRACTOR WITH LOCATIONS BEING FIELD VERIFIED BY SMS PROJECT MANAGER.
- POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS MEDICAL SOLUTIONS EQUIPMENT SHALL BE DEDICATED SERVICES KEPT ENTIRELY FREE AND INDEPENDENT OF ALL OTHER BUILDING WIRING AND EQUIPMENT, SUCH AS: ELEVATORS, GENERATORS, PUMPS, HVAC SYSTEMS, ETC. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CUSTOMER/UTILITY COMPANY FIELD REPRESENTATIVE.
- WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED BY SIEMENS MEDICAL SOLUTIONS BUT SHOWN ON DRAWINGS TO BE FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR INCLUDES THE FOLLOWING BUT IS NOT LIMITED TO UNLESS NOTED OTHERWISE: ELECTRICAL RACEWAYS AND DUCTS, WIRING TROUGHS, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND GROUNDING.
- RACEWAY AND CONDUIT NOTES: RACEWAY SHALL BE ELECTRIC METALLIC TUBING (EMT) FOR RIGID CONDUIT WORK, OR WHERE SHORT OFF-SET CONNECTIONS ARE REQUIRED LIQUIDTIGHT FLEXIBLE METAL CONDUIT SHALL BE USED. FIELD BENDS SHALL NOT BE LESS THAN AS SHOWN IN TABLE 346-10 OF THE NATIONAL ELECTRICAL CODE. PROVIDE A JETLINE "SUPER TRUE TAPE", OR EQUIVALENT CONDUIT MEASURING TAPE FISH LINE IN ALL RACEWAYS AND CONDUITS. CONDUIT BODIES SHALL NOT BE USED. WHERE A CONDUIT ENTERS A BOX, FITTING, OR OTHER ENCLOSURE, AN INSULATED THROAT CONNECTOR SHALL BE PROVIDED TO PROTECT THE WIRE FROM ABRASION. CONNECTORS SHALL BE DOUBLE SET SCREW TYPE, STEEL CONCRETE TIGHT. KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES OR STEAM AND HOT WATER PIPES. INSTALL RACEWAY RUNS ABOVE WATER AND STEAM PIPES PROVIDED THAT CABLE RUN DISTANCES ARE MAINTAINED. USE TEMPORARY CLOSURES TO PREVENT FOREIGN MATTER FROM ENTERING RACEWAY. CONDUIT RUNS ARE SHOWN SCHEMATICALLY. INSTALL CONDUIT WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE CONSIDERING THE BUILDING CONSTRUCTION AND OBSTRUCTIONS, EXCEPT AS OTHERWISE INDICATED. THE CONTRACTOR SHALL MAKE CERTAIN THAT ANY CONDUIT/RACEWAY RUNS CONTAINING SIEMENS MEDICAL SYSTEMS CABLES DO NOT EXCEED THE SPECIFIED MAXIMUM DISTANCES AS SHOWN ON THE ELECTRICAL DETAILS. PROVIDE ENCLOSED METAL RACEWAY SYSTEM (WIRE DUCT) WHERE SHOWN ON DRAWINGS WITH DIVIDERS TO SEPARATE THE DUCT (FOR POWER AND SIEMENS MEDICAL SOLUTIONS CABLES). DIVIDERS AND CROSSOVER PIECES TO BE PROVIDED AS NECESSARY. FOR UL CERTIFIED SYSTEMS, THE CABLE TO CABLE AS WELL AS THE CIRCUIT TO CIRCUIT SEPARATION REQUIREMENT WAS EVALUATED DURING THE UL SYSTEM INVESTIGATION OF THIS EQUIPMENT. ADDITIONAL SEPARATION OF THE SYSTEM CABLE ASSEMBLIES INTO SEPARATE OR PARTITIONED RACEWAYS, UNLESS OTHERWISE NOTED, IS NOT NECESSARY TO INSURE SEPARATION OF CIRCUITS, AS THEY CAN BE IN THE SAME RACEWAY. PROVIDE WIRE DUCT/RACEWAY WITH ACCESSIBLE REMOVABLE COVERS. LOCATIONS OF OPENINGS TO BE CUT IN FIELD ARE TO BE COORDINATED WITH SIEMENS PROJECT MANAGER. ELECTRICAL PULL BOXES AND RACEWAY COVERS SHALL BE INSTALLED IN A MANNER TO ALLOW ACCESSIBILITY FOR INSTALLATION AND MAINTENANCE. IN-FLOOR TRENCH DUCT AND FLOOR FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS.
- WIRING: WIRING SHALL BE INSTALLED IN METAL RACEWAY, 600 VOLT CLASS, STRANDED TYPE THHN-THWN, SINGLE CONDUCTOR. ANNEALED COPPER FOR A MAXIMUM OPERATING TEMPERATURE OF 75° C (165° F). SIZED AS INDICATED. THE CUSTOMER/CONTRACTOR SHALL LEAVE MINIMUM 10 FT. WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY SIEMENS MEDICAL SOLUTIONS.
- IN ADDITION TO THE CIRCUIT BREAKER LOAD CURRENT RATING, CONSIDERATION MUST ALSO BE GIVEN TO SELECTING CIRCUIT BREAKERS THAT HAVE A HIGH ENOUGH SHORT CIRCUIT CURRENT WITHSTAND RATING TO SAFELY COORDINATE WITH THE POWER SYSTEM AVAILABLE SHORT CIRCUIT CURRENT. GENERALLY, WHEN THE 480 VOLT, 3 PHASE, X-RAY EQUIPMENT IS SERVED FROM A POWER SUPPLY SYSTEM THAT IS PROVIDED WITH A 500 KVA OR SMALLER TRANSFORMER, A STANDARD 14,000 RMS AMPERE WITHSTAND RATED CIRCUIT BREAKER WILL BE ADEQUATE. HOWEVER, IF THE POWER SUPPLY SYSTEM TRANSFORMER IS LARGER THAN 500 KVA, THEN THE CIRCUIT BREAKERS HAVING A SHORT CIRCUIT WITHSTAND RATING GREATER THAN 14,000 RMS AMPERES MAY BE REQUIRED.

POWER QUALITY

POOR POWER WILL ALTER EQUIPMENT PERFORMANCE

IT IS IN THE CUSTOMER'S INTEREST THAT THE ELECTRICAL CONTRACTOR BE RESPONSIBLE FOR TESTING AND VERIFYING THAT THE EQUIPMENT POWER SUPPLY COMPLIES WITH THE SIEMENS SPECIFICATIONS.

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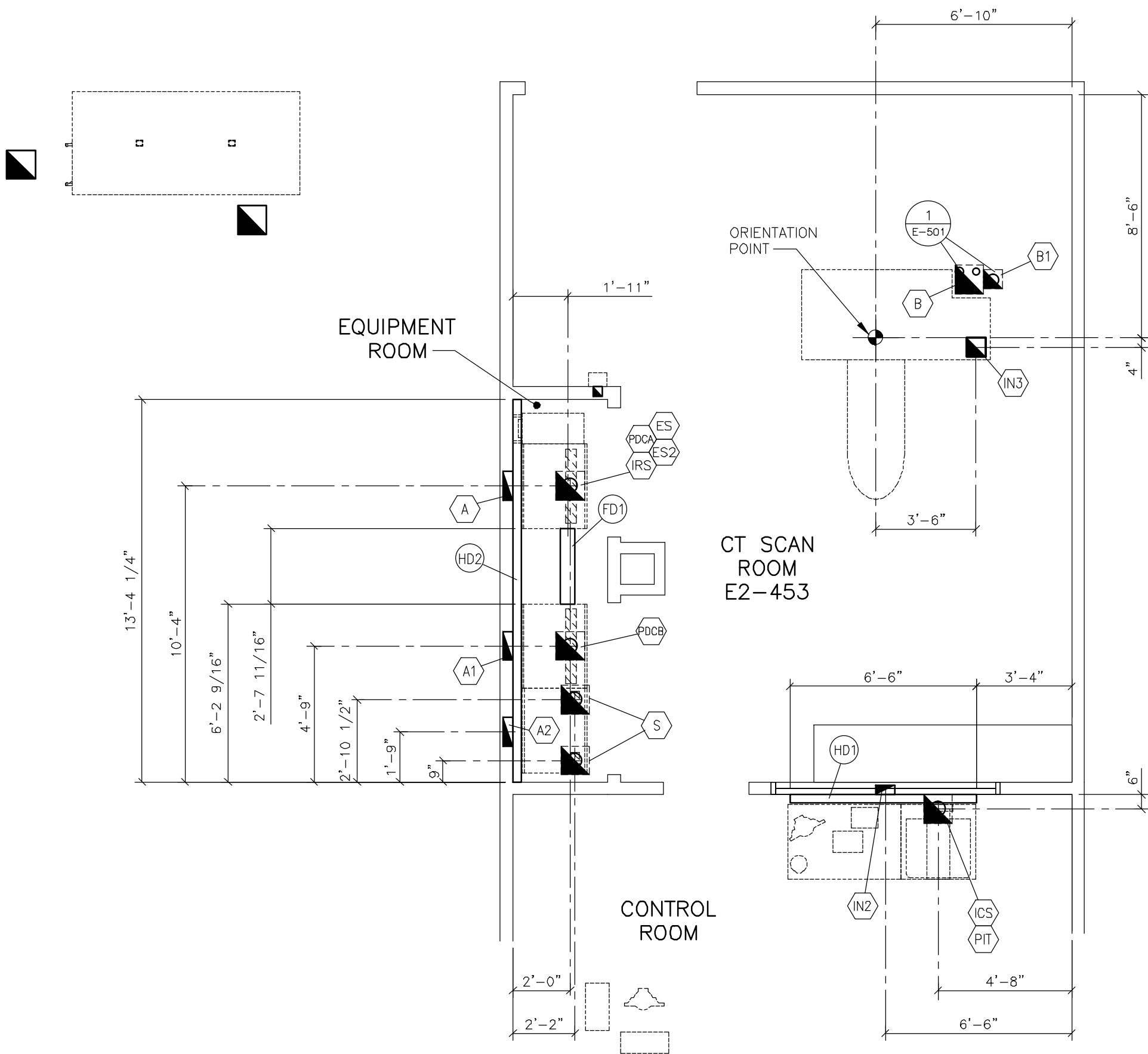
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FINISHED ROOM HEIGHT

FOR CT GANTRY ONLY	MINIMUM 7'-2 5/8"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-7 1/2" MAX. 11'-2 5/8"

PROJECT MANAGER: ROBERT SANDERS TEL: (707) 246-0670 EXT: VMAIL: FAX: (707) 552-7923 EMAIL: Robert.Sanders@siemens.com		SIEMENS VA PALO ALTO 640 3801 MIRANDA AVENUE (04D), PALO ALTO, CA 94304 CT SUITE E2-453 - SOMATOM DEFINITION FLASH	
THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.		PROJECT #: 1101626 SHEET: E-101	
ALL RIGHTS ARE RESERVED.		SHEET 5 OF 9 DRAWN BY: J. DRAMIS DATE: 9/22/11 CHECKED:	
SCALE: AS NOTED	REF. # 1-17EHEY		

09/22/11	R-101RB VERSION DATED 08/31/11 APPROVED BY CUSTOMER FOR FINALS	
SYM	DATE	DESCRIPTION
-ISSUE BLOCK-		



ELECTRICAL DIMENSION PLAN

SCALE: 1/4" = 1'-0"

SIEMENS SUPPLIED CABLES				
FROM	VIA	TO	DESCRIPTION	REMARKS
PDCA	11	ICS/PIT	POWER CABLE AND DATA CABLE	MAXIMUM LENGTH 82'-0"
PDCA	HD2	IRS	POWER CABLE AND PROTECTIVE CONDUCTOR CABLE	MAXIMUM LENGTH 82'-0"
PDCA	FD1	PDCB	POWER CABLE	MAXIMUM LENGTH 11'-0"
PDCA	12	B	POWER CABLE AND DATA CABLE	MAXIMUM LENGTH 82'-0"
PDCB	13 AND 14	B	POWER CABLE AND DATA CABLE	MAXIMUM LENGTH 82'-0"
B	15	ICS/PIT	CONTROL CABLE	MAXIMUM LENGTH 82'-0"
B	16	IRS	DATA CABLE	MAXIMUM LENGTH 82'-0"
S	17	B1	WATER HOSES	MAXIMUM LENGTH 96'-0"
B1	18	DRAIN	CONDENSATION HOSE	MAXIMUM LENGTH 32'-9"
IN2	19	IN3	INJECTOR CABLE	STANDARD LENGTH 75'-0"
S	A2,21,DC,21	S1	POWER CABLE AND CONTROL CABLE	MAXIMUM LENGTH 131'-0"
S	22	B	DATA CABLE	MAXIMUM LENGTH 98'-0"
S	23	S2	WATER HOSES	MAXIMUM LENGTH 119'-0"

SYMBOLS	
ALL MAY NOT APPLY	
	CAUTION OR WARNING
	MAIN PANEL OR ENCLOSURE BY CUSTOMER/CONTRACTOR
	OPENING IN RACEWAY OR TRENCHDUCT
	PULLBOX IN (FLOOR/WALL/CEILING)
	OPENING IN ACCESS FLOORING
	WARNING LIGHT (X-RAY ON)
	DOOR SAFETY SWITCH
	(EPO) EMERGENCY POWER OFF BUTTON
	TRENCHDUCT
	CEILING DUCT
	UNDER FLOOR DUCT
	VERTICAL DUCT
	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SMS PROGRAM MANAGER).
	110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET UNLESS OTHERWISE STATED.

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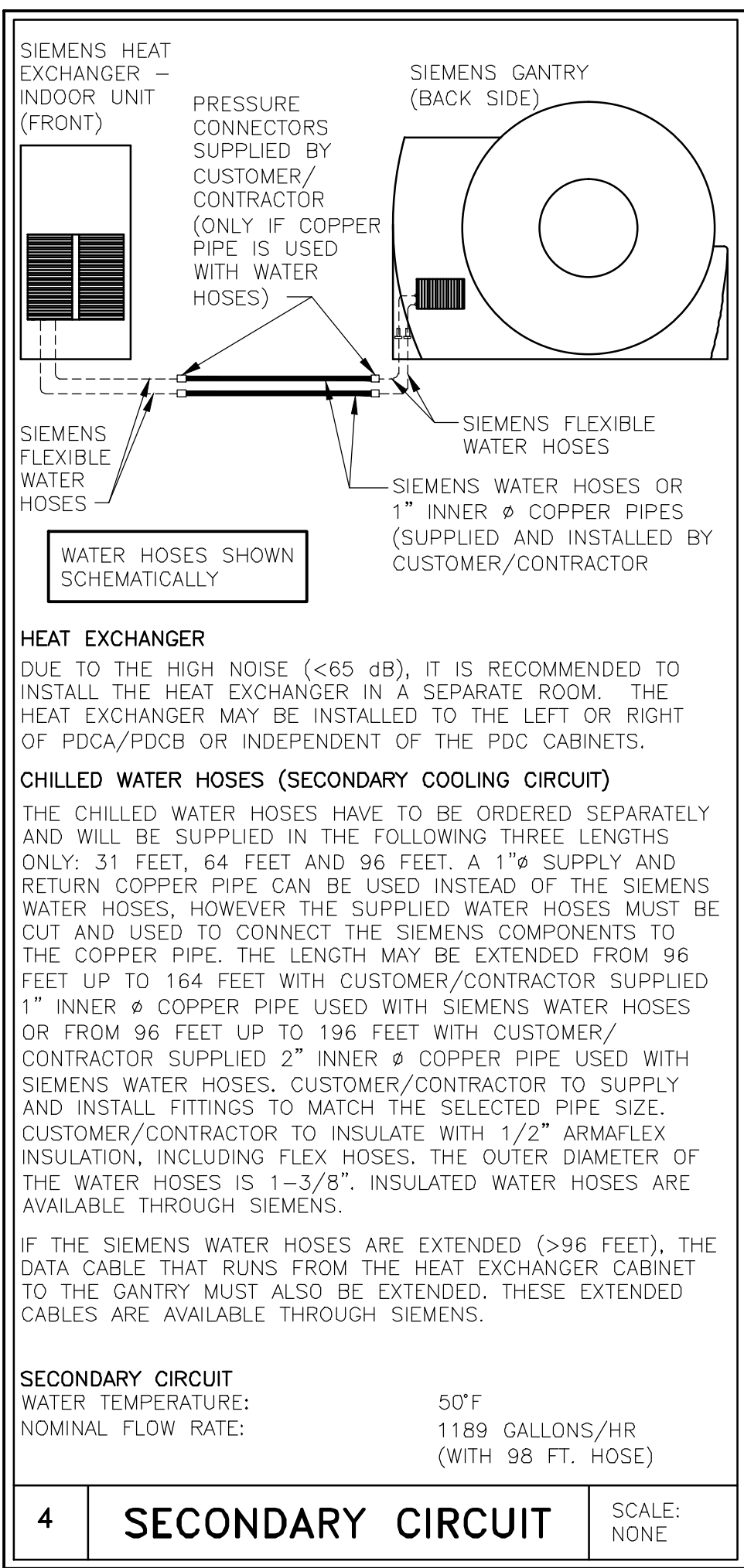
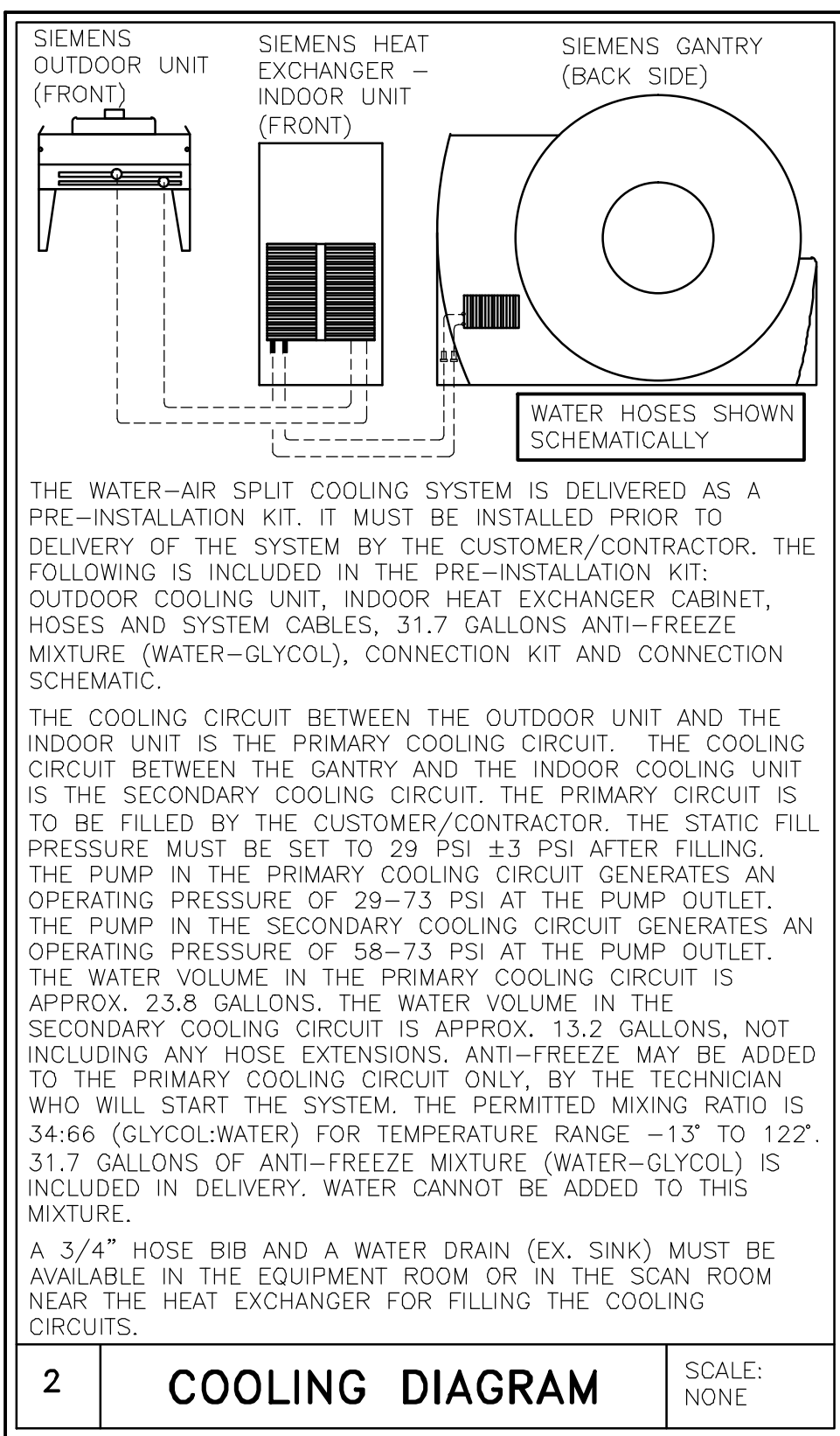
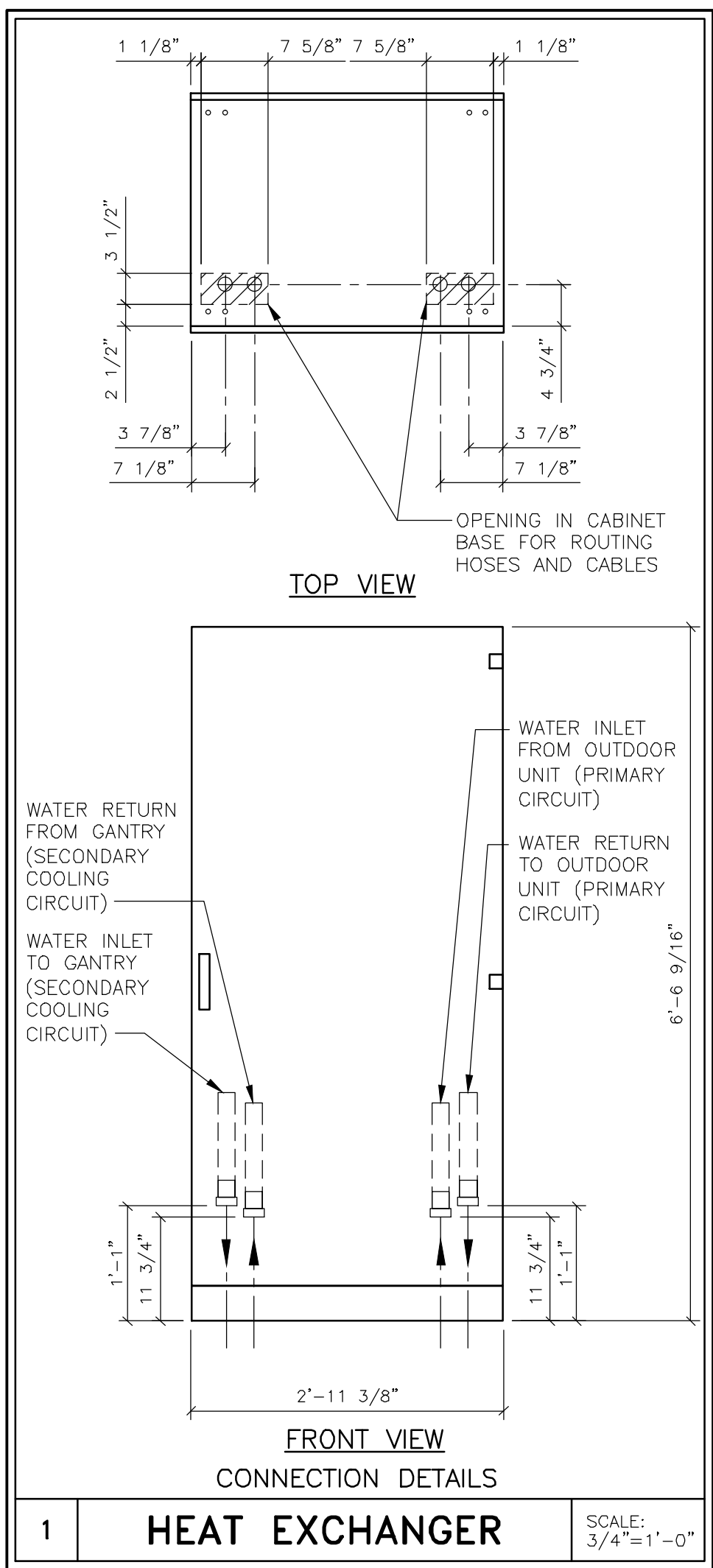
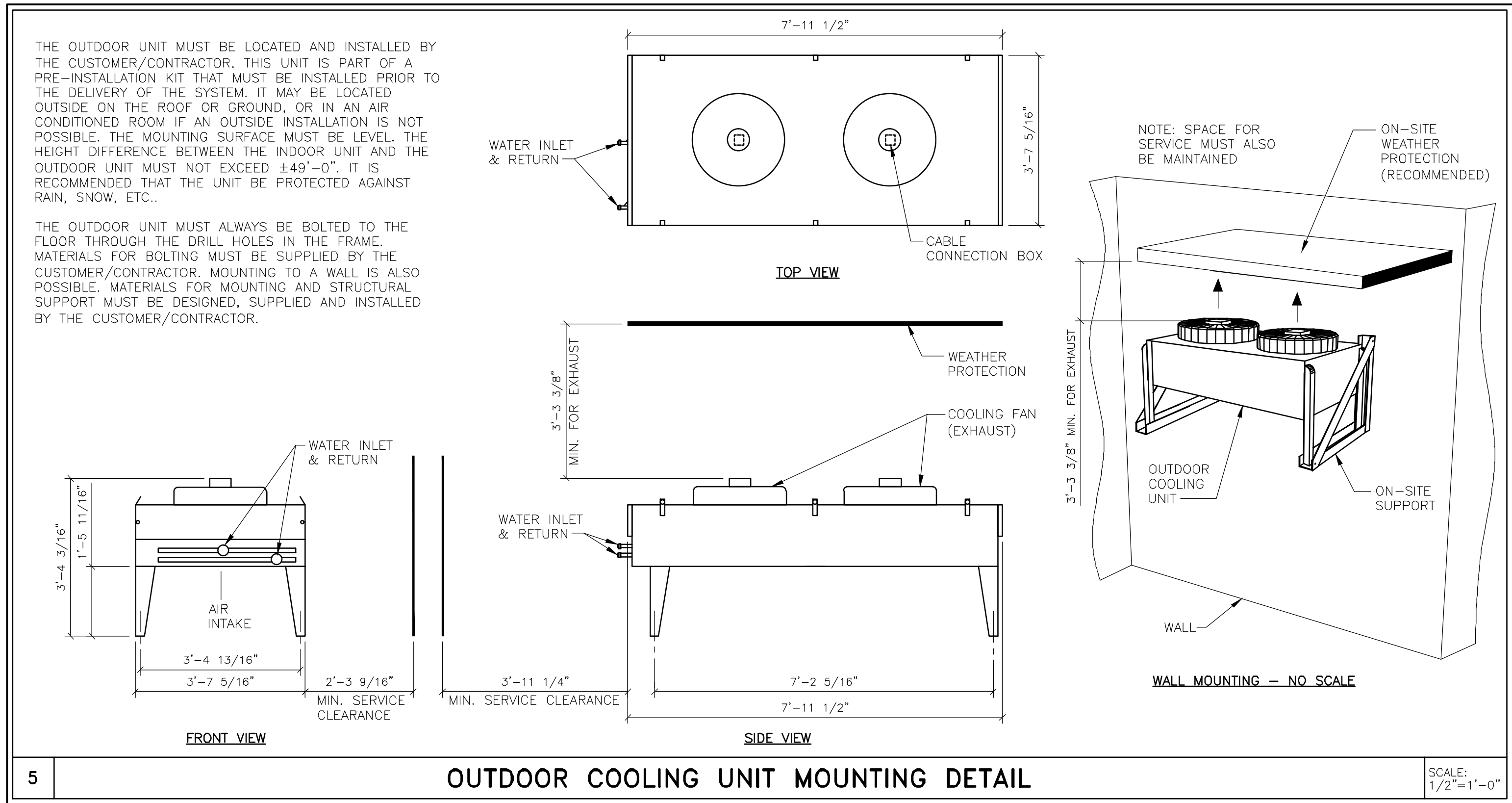
— ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
— THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

FINISHED ROOM HEIGHT	
FOR CT GANTRY ONLY	MINIMUM 7'-2 5/8"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-7 1/2" MAX. 11'-2 5/8"

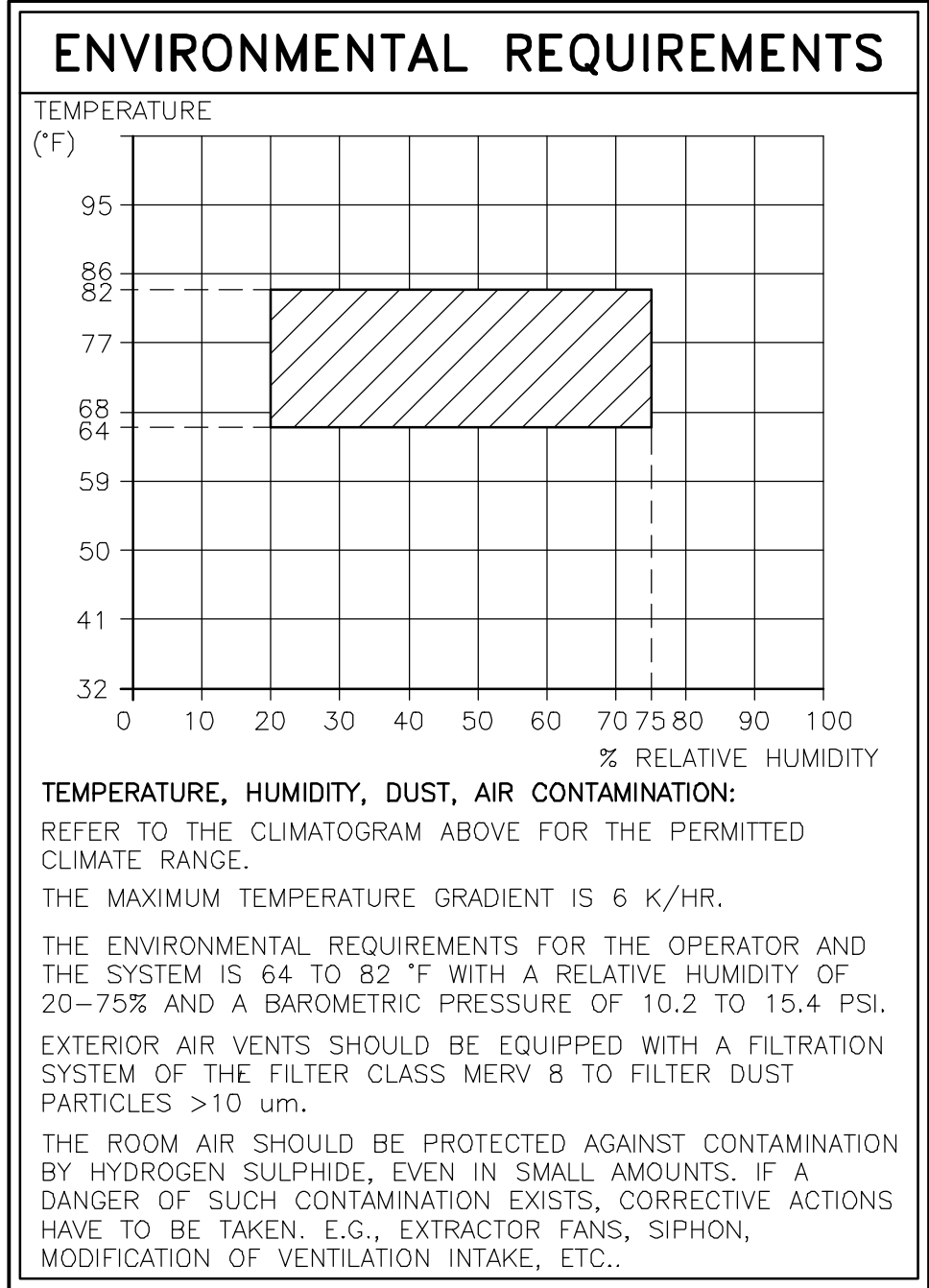
			PROJECT MANAGER: ROBERT SANDERS TEL: (707) 246-0670 VMAIL: (707) 552-7923 FAX: (707) 552-7923 EMAIL: Robert.Sanders@siemens.com		SIEMENS	
			VA PALO ALTO 640		3801 MIRANDA AVENUE (04D), PALO ALTO, CA 94304 CT SUITE E2-453 - SOMATOM DEFINITION FLASH	
			THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.		PROJECT #: 1101626	
			ALL RIGHTS ARE RESERVED.		SHEET: E-102	
			SYMBOLS		SHEET 6 OF 9	
			DATE: 09/22/11		DRAWN BY: J. DRAMIS	
			DESCRIPTION: R-101RB VERSION DATED 08/31/11 APPROVED BY CUSTOMER FOR FINALS		DATE: 9/22/11	
			— ISSUE BLOCK —		CHECKED:	
			SCALE: AS NOTED		REF. #: 1-17EHEY	

DEFINITION FLASH
03/11/11

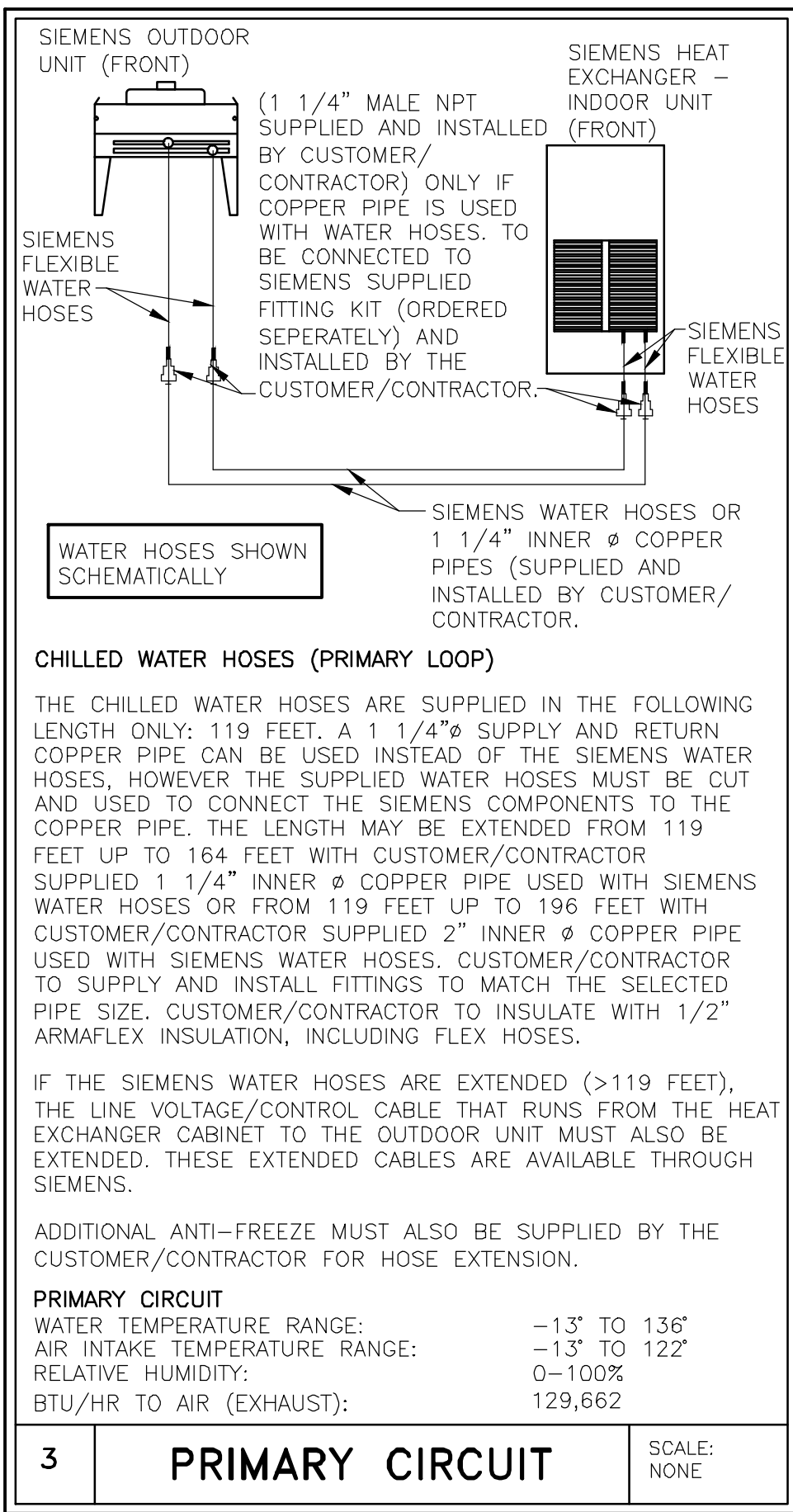
MECHANICAL PLAN



TECHNICAL DATA	
TEMPERATURE RANGE OF WATER	-13°F TO 136°F MAXIMUM (PRIMARY COOLING CIRCUIT)
	50°F (SECONDARY COOLING CIRCUIT)
AMBIENT AIR TEMPERATURE RANGE (AIR INTAKE)	-13°F TO 122°F MAXIMUM
FILTRATION	250 MICRONS
BTU/HR TO AIR (EXHAUST)	129,662
WATER QUALITY	
THE WATER MUST BE OF DRINKABLE QUALITY. IF THE WATER IS OF LESSER QUALITY A FILTER WITH A MESH OF 250 MICRONS IS REQUIRED IN THE PRIMARY INLET SUPPLIED BY THE CUSTOMER/CONTRACTOR.	
ANTI-FREEZE	
ANTI-FREEZE MAY BE ADDED TO THE PRIMARY COOLING CIRCUIT ONLY, BY THE TECHNICIAN WHO WILL START THE SYSTEM. THE PERMITTED MIXING RATIO IS 34:66 (GLYCOL:WATER) FOR TEMPERATURE RANGE -13° TO 122°F. 31.7 GALLONS OF ANTI-FREEZE MIXTURE (WATER-GLYCOL) IS INCLUDED IN DELIVERY. WATER CANNOT BE ADDED TO THIS MIXTURE.	



FINISHED ROOM HEIGHT	
FOR CT GENTRY ONLY	MINIMUM 7'-2 5/8"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-7 1/2" MAX. 11'-2 5/8"



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		VA PALO ALTO 640		3801 MIRANDA AVENUE (04D), PALO ALTO, CA 94304 CT SUITE E2-453 - SOMATOM DEFINITION FLASH
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		ALL RIGHTS ARE RESERVED.		SHEET: M-101
09/22/11		R-101RB VERSION DATED 08/31/11 APPROVED BY CUSTOMER FOR FINALS		SHEET 8 OF 9
SYM		DATE		DRAWN BY: J. DRAMS
-ISSUE BLOCK-		SCALE: AS NOTED		DATE: 9/22/11
		REF. #:		CHECKED:
		1-17EHEY		

ATTENTION:

- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

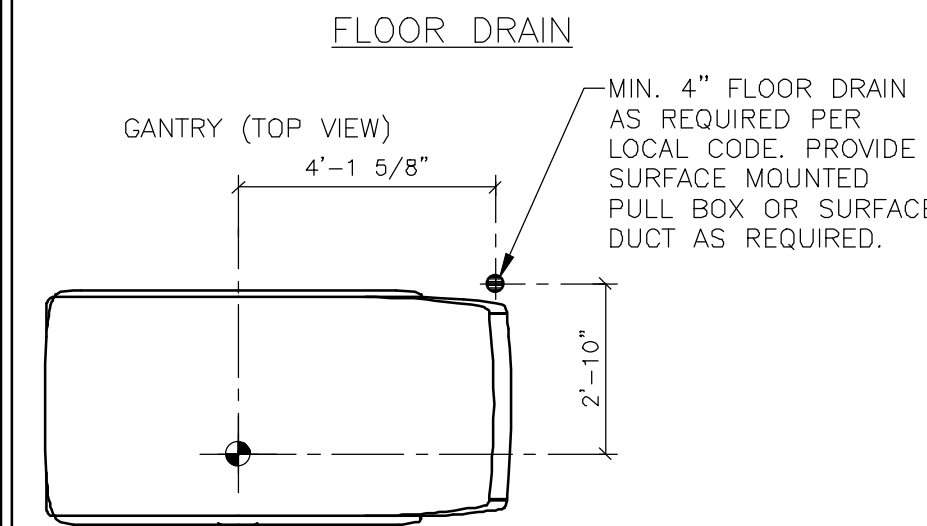
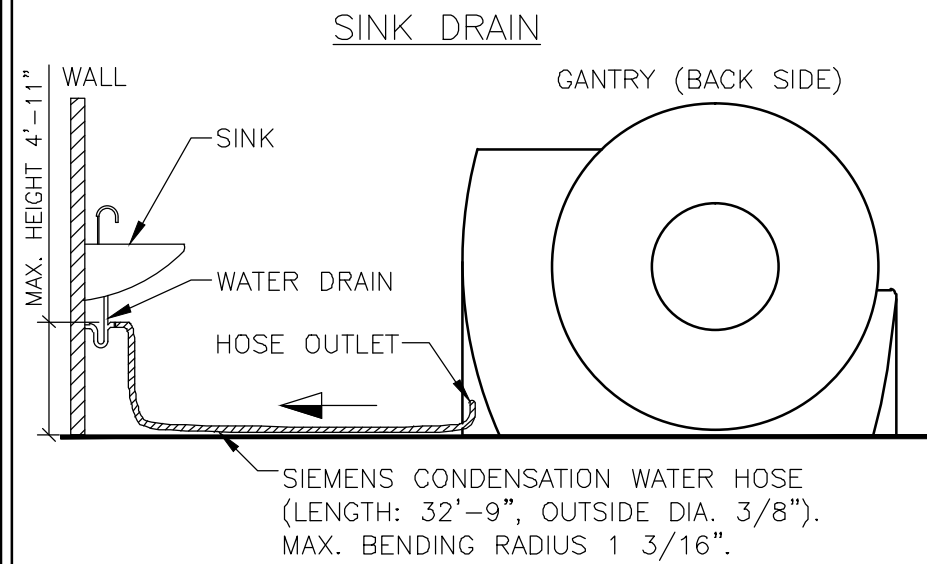
- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

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A WATER DRAIN IS REQUIRED TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER/CONTRACTOR TO DRAIN CONDENSED WATER FROM THE GANTRY. THE DRAIN MUST BE WITHIN 32'-9" OF THE GANTRY (TO USE THE DELIVERED WATER HOSE) AND CANNOT EXCEED 9'-10 1/8" ABOVE THE FINISHED FLOOR. THE DISTANCE FROM THE GANTRY TO THE DRAIN MAY BE EXTENDED UP TO 98'-5" WITH EXTENSION MATERIAL PROVIDED BY THE CUSTOMER/CONTRACTOR. BELOW ARE SOME EXAMPLES OF POSSIBLE WATER DRAINS. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR DETERMINING WHICH DRAIN TYPE TO USE AND FOR SPECIFYING, SUPPLYING AND INSTALLING THE PLUMBING FIXTURES NECESSARY TO CONNECT THE SIEMENS WATER HOSE TO THE SELECTED DRAIN.

THE MAX. FLOW RATE OF THE CONDENSED WATER IS .53 GALLONS/HR AT 75% RELATIVE HUMIDITY.



1 CONDENSATION WATER DRAIN

ATTENTION:

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			ALL RIGHTS ARE RESERVED.				SHEET 9 OF 9	DRAWN BY: J. DRAMIS
			SCALE: AS NOTED REF. #: 1-17EHEY				DATE: 9/22/11	CHECKED:
			—ISSUE BLOCK—				M-501	